

# Vhf-UhfDIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 1994

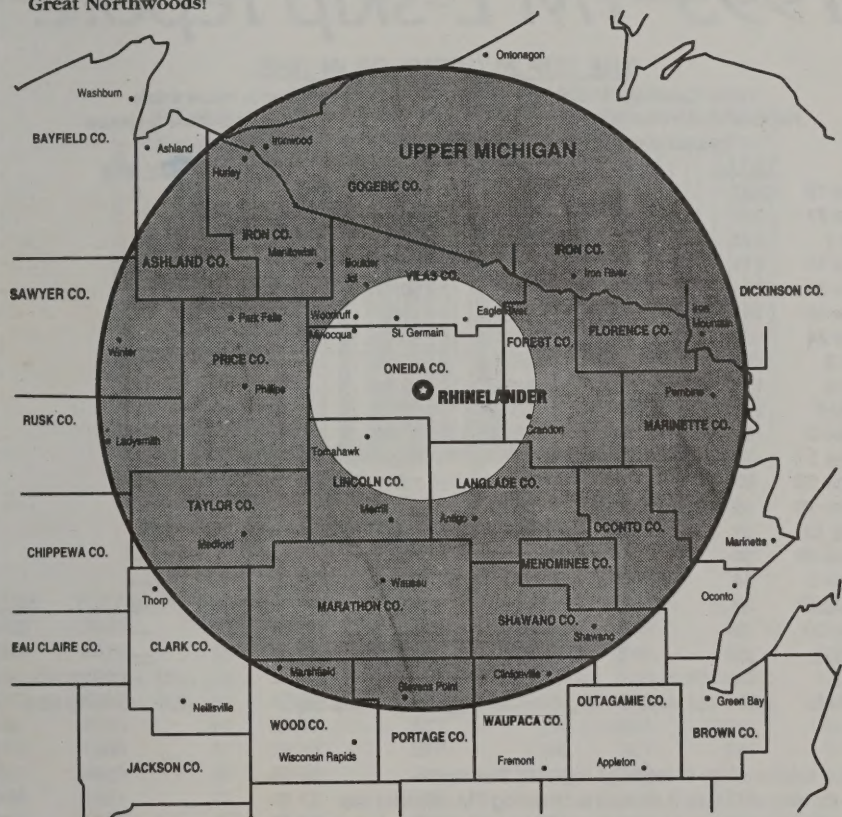
**WRHN** *FM 100.3*  
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1240 AM **WOBT**  
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- Lite Adult Contemporary Music!
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- Adults 25+ Target!
- ABC Network News!
- Local News, Weather and Sports Since 1947!
- Paul Harvey News!
- Pure Gold From the 50's, 60's and 70's!



OUTER CIRCLE - WRHN COVERAGE

# SPECIAL REPORT

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1993 was another mediocre skip year, much like last year. In fact, note below how close statistically the two seasons were, within 17 total loggings, and the same number of days. And in both seasons June was the best month, although June dominated even more this year, with 66% of the total loggings coming in that month. It was the 2nd best June of the past 10 years. May was by far the most dismal showing that month has ever put out, with only 57 total loggings the whole month, which is less than the average number of loggings per day in June! The best periods were mid to early June, and early July, before really tapering off in late July. One notable absence this year was the lack of a widespread "monster" opening; this year's leading skip day, June 12, netted 297 loggings, which would put it only 4th place last year, hardly a banner year in itself. And no FM opening this year was heard by more than 18 DXers, while 26 was the high last year. Despite this, there were enough mediocre openings to at least salvage the season. The average number of loggings per skip opening was strikingly similar to last year's average: only a difference of 0.25 loggings!

## 1993 FM E-skip report.

### THE TOP 20 OPENINGS IN 1993.

Note: Openings in October and November not included in these totals  
Reports taken from Northern and Southern FM DX up to the December 93 issue  
Special thanks to Doug Smith for assistance compiling this report!

DATE	TOTAL	#rep	avg	MUF	high	TV rank
1. June 12	<u>297</u>	<u>18</u>	16.50	107.9	49	3
2. June 21	229	17	13.47	107.9	46	1
3. July 1	223	15	14.87	107.9	38	5
4. June 18	211	15	14.07	107.9	43	8
5. June 3	204	9	<u>22.67</u>	107.7	<u>77</u>	7
6. June 16	191	11	17.36	107.7	62	15
7. June 24	163	16	10.19	107.9	35	6
8. July 3	150	9	16.67	107.5	41	2
9. July 5	139	7	19.86	107.9	44	16
10. July 6	135	15	9.00	107.9	40	4
11. June 9	94	6	15.67	107.9	47	18
12. June 11	73	7	10.43	103.1	28	12
13. June 29	67	6	11.17	107.7	18	14
14. June 15	58	10	5.80	107.3	25	—
15. July 12	37	8	4.63	105.7	8	—
16. June 25	36	8	4.50	107.1	12	—
17. June 8	34	3	11.33	107.5	18	—
18. June 17	32	5	6.40	104.1	12	19
18. July 30	32	8	4.00	102.9	15	—
<u>20. July 2</u>	<u>29</u>	<u>3</u>	<u>9.67</u>	<u>107.5</u>	<u>15</u>	<u>—</u>
TOTAL:	2688 (55 days)		avg of 48.87 loggings per skip day,			avg MUF = 101.43 Mhz
1992 stats:	2676 (55 days)		avg of 48.61 loggings per skip day,			avg MUF = 101.38 Mhz

#### Key:

TOTAL = total number of loggings reported that day  
#rep = number of DXers that reported hearing FM skip that day  
avg = average number of loggings per DXer that day (total ÷ # rep)  
MUF = maximum useable frequency noted that day  
high = most loggings reported by an individual reporter that day  
TV rank = ranking of this skip day in Doug Smith's 1993 TV Es report

## 1993 FM E-skip report continued...

### BREAKDOWN BY MONTH

MONTH	month total	no. of skip days	avg	avg MUF
JANUARY	3	1	3.00	93.30
MAY	57	9	6.33	98.90
JUNE	1762	24	73.42	102.37
JULY	809	14	57.79	103.24
AUGUST	46	5	9.20	100.50
SEPTEMBER	11	2	5.50	93.10

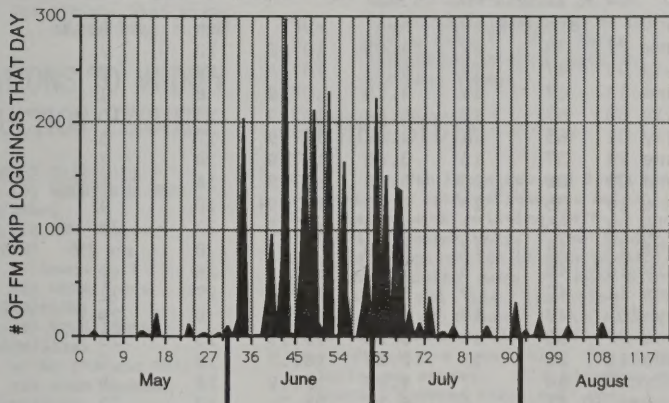
(October and November openings not included)

### BREAKDOWN BY MUF

MUF noted	# of openings reaching this MUF	percent
up to 108.0+ Mhz	0	0.00%
up to 107.9 Mhz	11	20.37%
up to 105.1 Mhz	25	45.45%
up to 100.1 Mhz	31	56.36%
up to 98.5 Mhz	33	60.00%
up to 96.1 Mhz	38	69.09%
up to 92.1 Mhz	48	87.27%
up to 88.1 Mhz	55	100.00%

### 1993 FM SKIP SEASON IN REVIEW

Each vertical grid line represents 3 days. The graph covers May 1 to August 31, 1993.



### A look back...

YEAR	TOTAL	#days	avg	May	June	July	Aug.	Sept.
1993*	2688	55	48.87	57	1762	809	46	11
1992	2674	55	48.61	840	1523	140	99	0
1991	4003	78	51.32	483	1064	1929	356	10
1990	4980	68	73.24	2019	1603	1258	74	13
1989	3848	74	52.00	581	550	2031	531	0
1988	1965	67	29.33	357	1186	307	33	0
1987	4922	82	60.02	209	2661	1686	300	0
1986	2951	73	40.42	802	978	469	573	18
1985	1786	64	27.91	170	842	614	11	66
1984	1639	87	18.84	550	515	332	72	11
1983	3856	76	50.74	373	1525	1714	112	0

\* 1993 totals are not yet complete (missing October & November data), data excludes December openings

# 1993 TV E-skip Report

## Monthly report:

Month	Total loggings:	Es days:	Avg. loggings/day:
December '92	72	7	10.29
January	15	2	7.50
February	none		
March	none		
April	none		
May	183	20	9.15
June	698	27	25.85
July	502	29	17.31
August	115	17	6.76
September	none		
October	none		
November	none		
Annual summary	1585	102	15.54

Total loggings: All IDd Es loggings reported to ETV/WTV.  
 Es days: All days on which at least one DXer reported an IDd Es logging.  
 Average: Average number of Es loggings (by all reporters) per day.

## Best days:

	Date:	Total:	Rptrs:	Avg:	MUF:	Max.:	FM Rank:
1	June 21	90	22	4.09	107.9	13	2
2	July 03	87	14	6.21	107.5	16	8
3	June 12	67	16	4.19	107.9	8	1
4	July 06	67	12	5.58	107.9	13	10
5	July 01	65	14	4.64	107.9	17	3
6	June 24	57	15	3.80	107.9	10	7
7	June 03	56	10	5.60	107.9	14	5
8	June 18	55	13	4.23	107.9+	10	4
9	July 08	55	5	11.00	107.5	22	22
10	June 25	48	12	4.00	6	8	no FM
11	July 14	48	5	9.60	97.3	26	42
12	June 11	47	9	5.22	107.9	27	12
13	May 23	40	10	4.00	95.1	9	29
14	June 29	39	11	3.55	107.9	13	13
15	June 16	35	13	2.69	107.7	12	6
16	July 05	34	7	4.86	107.9	14	9
17	August 10	31	6	5.17	95.7	10	33
18	June 09	30	10	3.00	103.1	11	11
19	June 17	28	9	3.11	107.9	9	18
20	June 28	28	11	2.55	100.3	9	21

Total: Count of all IDd Es loggings reported this date.  
 Rptrs: Count of all DXers reporting at least one Es logging this date.  
 Avg: Average number of loggings per DXer on this date.  
 MUF: Maximum usable frequency reported.  
 Max: Most loggings reported by one DXer.  
 FM Rank: Ranking of this date in Greg Coniglio's FM Es report.

Good luck in 1994!

Doug Smith (thanks to Greg Coniglio for FM ranks & MUF)

## TV News

**Doug Smith**  
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**Nashville, TN 37209**

**615-356-8305**  
**CIS 72777.3143**

Abbreviations used in this column:

ERP= Effective Radiated Power  
in kW  
HAAT= Height Above Avg. Terrain  
nc= no change  
TL= Tower Location  
CP= Construction Permit  
Pr= Province (of Canada)  
\*= Non-commercial  
CRTC= Canadian Radio-Television  
Commission  
DBS= Direct Broadcast Sat.

## APPLICATIONS FOR NEW STATIONS

St	Ch	ERP	HAAT	City;Applicant
CA	32	1320	491	San Francisco; Bay Area Multi-cultural Telecomm.
CA	40	1360	906	Santa Ana; Maravillas Bcstg Co.
NE	18	1855	353	Albion; Fant Bcstg Co. of Nebr.

## APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
MI	8	29.6	190	WDHS	Iron Mtn. (was 2kW/155m)
OK	53	1770	182	KWMJ	Tulsa (was 4900kW) (TL:8181 S. Lewis St.)
PR	9	178	857	WSUR	Ponce (was 58.9kW/846m)
SC	63	13	165	WQHB	Sumter (was 5000kW/343m) (TL:jct. of SC-378 and 763)
WA	22	84	429	KSKN	Spokane (was 230kW/395m)

## APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CO	*8	241	715	KTSC	Pueblo (was 234kW/727m)
PR	11	nc	355	WLII	Caguas (was 360m)

## MODIFICATIONS GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
MA	48	3000	nc	WYDN	Worcester (was 5000kW)
MN	45	nc	375	KVBM	Mpls. (was 191m)

## CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
NJ	68	2630	439	WHSE	Newark (was 2190kW/436m)

## CALL LETTER CHANGES

Was	Now
WQTV	WABU-68 Boston, MA
WLIM	WDHS-8 Iron Mtn., MI
WFCT	WFAY-62 Fayetteville, NC

## NEW STATIONS ON THE AIR

Katy, TX: KNWS 51+  
2560kW/294m  
TL 29°35'20"N, 95°33'26"W  
in the tower farm south of Houston.  
Seen by Jeff Kruszka on Nov. 19, who says they went on the air on Nov. 3. This is an independent station with an all-news format.

## OTHER STUFF

The San Francisco and Santa Ana new station applications are mutually exclusive with existing KMTN-32 and KTVN-40 respectively. The Albion, Nebraska application is made possible by the pending move of KCAN-8 to Lincoln, and the resulting new allocation of channel 18 to Albion. The Iron Mountain call letter change is actually a year old, it never cleared my source. (I'm planning on changing sources early next year...)

Looking at December LPTV Watch, Fred McCormack believes the K14AQ calls for the Billings TBN are wrong, with that LPTV having been deleted in 1991. K05HS (the first TBN in Billings) was granted a CP to move to channel 14 in May 1993, but calls weren't given. (it's possible that, until a final license is granted, the correct calls for channel 14 are K05HS!)

The Supreme Court will begin hearings on the constitutionality of the must-carry provisions of the

## (Other Stuff, contd.)

Cable Act on January 12. The Justice Department, FCC, and National Association of Broadcasters support the rules; cable interests oppose them.

An article in the Dec. 13 issue of *Broadcasting and Cable* indicates that ethnic-formatted W23AT Chicago is using the "non-ID" WFBT. Indeed, the article never mentions the W23AT calls!

Boston University, which recently purchased WQTV-68 (now apparently WABU-68) and WCVX-58 Vineyard Haven, has now also purchased WNHT-21 Concord, New Hampshire. GM Robert Gordon says the purchase was made to "achieve signal coverage parity".

Another station has been purchased by home-shopping network ValueVision. This time, it's ABC affiliate WAKC-23 Akron/Cleveland, which we can probably expect to switch to home shopping.

The shortest commercial ever has aired on KING-5 Seattle. The candy commercial was solicited by KING's *Evening Magazine* program, which wanted to air the shortest & most expensive spot. The commercial lasted four frames (there are 30 TV frames in a second...) and cost \$3,780; extrapolated to a 30-second commercial, it would cost \$28,350, \$17 more than the most expensive spot in last year's Super Bowl...

## LPTV WATCH

Call	St City; programming
K07UU	AK Fairbanks; Fox "KFBK"
W14AS	NC W. Asheville; WHNS-21
K20DQ	OK Sulphur; local
W21AQ	VA Hampton; ACTS relig.
W24AL	GA Atlanta; HSC
W24BA	NC Tryon; NC ETV
K27AZ	OK Lawton; TBN
K30DI	TX Wichita Falls; FAM
W32??	NC Greenville; TBN
W33AT	GA LaGrange; CMT, MSTV, loc.
W34AG	GA Rome; Main St. TV
K35BO	OK Lawton; HSN
W35AV	NC Black Mtn.; WHNS-21
W40AZ	DE Wilmington; TBN
W42??	GA Atlanta; tourist
W55BM	GA Marietta; TBN
W59AR	NC Brevard; NC ETV
W66BU	NC Sylva; WHNS-21
W67CI	GA Woodstock; Telemundo

This month courtesy of Howard Fountain, Jerry Stuart, Stephen West, and Greg Coniglio.

## FORUM

Neil Griffin, Kirksville MO:

Neil sent a brief E-mail indicating that KTVO-3's retransmission problems in Kirksville have been solved. The station signed a no-compensation agreement for carriage until Jan. 15, 1995. "Station manager Bob Kizer said the reason was that the viewers were caught in the middle, and the fact that the station was unavailable to those in hospitals and nursing homes (no mention of dormitories with brick and steel construction!). That leaves KTVO off cable systems in Macon and Marceline, Missouri and Lockridge, Iowa."

John Zeis, Exton PA:

John writes about new TBN activity in his area: "W40AZ, Wilmington, DE began operation 12 November." "The transmitter is north of Wilmington, just south of the PA-DE border. May be using a directional antenna as the signal here (16mi. NNW) is fairly snowy. The choice of channel is strange with only a 63 mile separation from WMGM, Wildwood-Atlantic City. Cochannel interference is almost constant here."

John (and several other writers, including myself) noticed TBN running a fund drive, attempting to raise money for 60 additional stations. He noticed Nashville on the list— weird, as WPGD-50 and W36AK already cover this city pretty well. Unless they want to spend the money to replace W36AK's transmitter with something that won't go off the air every other week!

The TBN announcer said "TBN no longer builds low power stations, but all will be 'Medium Power' with 1000 watt transmitters. Each will cost \$100,000 to \$120,000." Well, TBN can call them "medium power" but in the eyes of the FCC, 1000w is still a LPTV! Still, the CBA (trade association of LPTVs) may want to take note; they've been trying to distance themselves from the "low power" label, this may be the way to do it!

Fred McCormack, St. Paul MN:

Fred has provided quite a bit of LPTV info, as well as leads on several of the off-the-air stations in the list at the end of the column. (including several that don't appear on the list because he confirmed they're on!)

(Forum, Fred McCormack, contd.)

Also, with regard to Matt's & my notes about IDing home-shopping stations, Fred says ValueVision (carried in Minneapolis on K07UI and K62BD) can be identified by the phone number 1-800-788-2454. They keep a logo in the lower right corner of the screen, but the phone number is easier to read. Both HSS and HSC can be seen over the air in the Minneapolis area, HSS on K35CY and HSC on KXLI-41.

Bill Nienajadly, Clifton NJ:

This month's pick clipping... from the Sept. 27 *Wall St. Journal*.. "In Britain, unlicensed telly watching is a crime..."

The article details the work of a despised division of the British Post Office, the unit that enforces the requirement that all TVs be licensed. Yes, in Britain you must have a license not only for a TV transmitter, but for a receiver. Revenues from the \$125 annual license fee support the BBC, allowing it to operate without commercials.

This license enforcement unit has been quite successful of late, catching as many as 1,000 unlicensed sets a day. (they still estimate there to be 1,700,000 unlicensed sets, about 13% of all homes in the country)

Blind people have been convicted of owning unlicensed sets; so have recent immigrants who spoke no English, had no antenna, and used the set only to watch videotapes from their native countries. Further, one can be convicted for watching an unlicensed set at someone else's home, even if your own set is licensed! About the only excuse that does work is if the unlicensed TV doesn't work.

The license police use two tactics to find outlaws. The most efficient is a computer database; it contains the address of all 24million UK households, and cross-references it against license holders, providing a regular list of households with no license, or a license about to expire. Another, higher-tech, method is a "Television Detection" van. This unit can determine whether a TV is operating in a given home, and if so, to which channel it's tuned. While the article doesn't say so, I'm sure this is done by detecting leakage from the set's local oscillator- it has been rumored that ratings services here in the USA have tried similar schemes to determine who's watching what channel.

Another item supplied by Bill notes that a TV violence code has been

voluntarily adopted by Canadian TV stations. While compliance with the code is voluntary, the CRTC can look at compliance when deciding whether to renew a given stations' license.

Dave Pomeroy, Topeka KS:

Dave wrote from "the road" in a Dallas-area motel room to confirm that KLDT-55 is, in fact, on the air. "I saw it in Topeka on Sept. 28 and telephoned them while in Dallas. They indicate they are on the air 24hrs. with their transmitter near Lewisville. (NW of Dallas, near Lake Dallas)" Fred McCormack says he's heard from Robert Delaney that Home Shopping Spree has been seen on this station.

Jerry Stuart, Lawton OK:

Jerry sent in a bunch of LPTV info. Some more notes on that subject from him: "Off air: K53DS- owned by KJTV ch. 18, was used for same (HSN?) as K35BO but could not get on Lawton Cablevision & was taken off air. License & transmitter were offered to Lawton Public Schools who said no, due to pressure from CATV."

"We do have a PBS translator on 36 rebroadcasting ch. 13 from Oklahoma City (KETA) but have never found their call. Also, channel 54 Duncan, same as ch. 36." (these are K36AB and K54BB, respectively-ds) Jerry has also seen a Channel America on 62 in San Antonio- I have nothing on this station.

Keith Short, Columbus OH:

WSYX-6's new tower is on the air, as of Oct. 11. "Unless a news event intervenes, Channel 6 will open the newscast with a live shot of Connelly symbolically throwing a switch. (a technician in the control room will activate the real one.)" On that date, at the beginning of their 6PM newscast, the station began broadcasting from a new 1000' tower in Green Lawn Cemetery, replacing a 750' tower on the Ohio State University campus. VP Terry Connelly told the *Columbus Dispatch* the new tower cost \$3million and required four years of negotiation with federal, state, and local governments.

The Oct. 16 *Chillicothe Gazette* noted that WWAT-53 there has been sold to Fant Broadcasting of Alabama for \$2million. Keith asks "With WWAT-TV changing hands, what kind of programming can I expect to see in the coming months?"

(Forum, Keith Short, contd.)

Does anybody know what kind of programming WNAL-TV (Fant Broadcasting's other station) carries?" Last time I saw it, WNAL-TV was a semi-satellite of Fox affiliate WTTQ-21 Birmingham; before the LMA which resulted in this relay situation was signed, WNAL was a regular independent serving Birmingham, as well as Gadsden and Anniston. I don't expect any major change in direction for WWAT.

Closed-captioning, which makes TV accessible to the deaf, is now fairly well established. Now, WOSU-34 is making TV accessible to the blind. The PBS affiliate is beginning to offer "Descriptive Video Service". This service uses the Second Audio Program- SAP- function on stereo TVs to provide a verbal description of physical gestures, facial expressions, and geographical settings. The first program to be presented is "Porgy & Bess", with other PBS drama and nature programs to follow.

On the retransmission-consent front, all Columbus stations reached an agreement. WBNS-10 actually selected must-carry & didn't ask for any compensation. WTTB-28 signed a 60-day extension after failing to get local cable systems to sign on to the standard Fox agreement. Reportedly, WCMH-4 asked for a second channel for an all-news program but failed to get it. Cable representatives told the *Dispatch* that WCMH and WSYX-6 have settled for news headline inserts on cable channels including CNBC and the Weather Channel.

Tom Bryant, Nashville TN:

Wilson Co. Chancellor (judge) C.K. Smith has given Dr. Joe Bryant another chance to auction his stock in WJFB-66. If this second auction is no more successful than the first, 1991, auction, Jim Owens, producer of the TNN program *Crook and Chase* could be liable for \$1.5million. A *Nashville Banner* article says Owens bought 49% of the station in 1990. However, Bryant said Owens stopped paying for his 49% in 1991, and Bryant was forced to sell his stock for \$250,000 at auction. Owens claims he owes nothing, and that the low price obtained by Bryant was because of poor handling of the sale- the station wasn't advertised in any broadcasting publications, only the *Lebanon Democrat*. WJFB has been dark since April 1991, when the transmitter was disabled by lightning.

In another *Banner* article, WDCN-8, Nashville's PBS affiliate, is

asking Metro government for four additional full-time channels on the cable system here. One would carry rebroadcasts of PBS shows, foreign-language programming, and Congressional hearings. A second would carry adult-education and professional development courses. The third would air instructional programs for children, and the fourth instructional programs for older students. In addition, WDCN plans to expand its channel 8 operations to 24 hours. (it currently broadcasts from roughly 7AM to 11PM)

Viacom Cable, which is negotiating for an early franchise renewal, doesn't seem favorably inclined to the proposal.

Finally, the leader of Prairie Public Broadcasting (North Dakota) is dead. Dennis Falk died of cancer in mid-November; he'd expanded the system from one TV station in Fargo to the current seven TV and five radio stations. Tom knew Falk & says he was very DXer-friendly.

Keith Smith, St. Ann MO:

An unconfirmed report in the Nov. 28 St. Louis *Post-Dispatch* notes that River City Broadcasting is buying KRRT-35 Kerrville/San Antonio. Reportedly, if the deal is completed, River City would then affiliate its other stations (WTTV-4/WTTK-29 Indianapolis and KABB-29 San Antonio) with the new Paramount network. (I believe River City would be allowed to control both KABB and KRRT because KRRT's transmitter is far enough west of San Antonio that coverage overlap doesn't violate FCC standards.)

From the Nov. 24 *Post-Dispatch* (and the AP), a federal appeals court has struck down a FCC regulation (mandated by Congress) prohibiting airing of "indecent" programs on radio and TV between 6AM and midnight. The regulation was ruled "an un-constitutionally broad encroachment on free speech".

Keith asks whether this means we'll be seeing people having sex, or "cutthroat" violence, on regular TV? I doubt it. First, this ruling applies only to "indecent"- "obscene" programming continues to be prohibited. I'm not going to try to put an absolute definition on the difference (if government lawyers can't, I sure can't!) but in general, anything X-rated continues to be proscribed for TV.

(Forum, Keith Smith, contd.)

Secondly, there's the business side to consider. Utterly "clean" family fare may not score too well in the ratings- but extremely "dirty" programs will also turn off enough viewers to probably prove economically unfeasible.

During Thanksgiving week, Keith saw TBN preempt "Praise the Lord" not with fundraising spiels- but movies! He doesn't say exactly what kind of movies, but I gather they weren't specifically religious in nature?

Both Keith and Greg Coniglio mention a controversial Canadian murder case. A judge (fearing he'd have trouble finding an unbiased jury?) issued a "gag order" prohibiting publicity on the case. Reportedly, Canadian border police actually arrested some people for attempting to bring copies of the *Buffalo (NY) News*, with articles on the case, into Ontario.

While of course a Canadian judge has no authority to restrict what's aired on U.S. broadcast stations, WGRZ-2 agreed to "black out" *Current Affair* and *Now* stories on the subject; indeed, a total of 16 NBC affiliates near the border agreed to black out parts of the *Now* story. And, some Ontario cable systems have now at least temporarily dropped U.S. stations which might carry the story.

Greg Coniglio says he's read that the CRTC is unhappy with Canadian TV and cable for the blackouts, charging censorship! Quoting Greg, "...I have been told the rumors going around Southern Ontario as a result of the ban are worse than the truth is!"

Finally, Keith wants to know if any stations besides KNLC-24 carry the World Harvest TV program "The American Times"?

Dave Sinclair, Vancouver BC:  
(via Fred McCormack)

Dave has heard that the CRTC will hold hearings for licenses for new TV stations in Edmonton and Calgary this month.

He also passes along an article from the Nov. 12 *Vancouver Sun* in which two local hospitals evicted unauthorized equipment which had been placed in their basements by Rogers Cable. The equipment assisted Rogers in relaying data and audio signals for several Vancouver businesses, radio stations, and the CBC. Hospital spokesmen told the *Sun* they were first aware of the equipment when Rogers

technicians, who are on strike, threatened to picket the hospitals unless the gear was removed.

Lawrence Marecki, Cleveland OH:

The NFL/bar battle over pickup of blacked-out football games continues in Cleveland. In past years, the NFL has successfully prevented the showing of satellite feeds of football games in public places. In response, many bars have installed large antennas, with which to receive the games from "unblack-out" stations in other cities.

Now, according to articles in the *Cleveland Plain Dealer* (great name for a paper!) the NFL is suing to attempt to stop this method. In mid-October, hearings were held in U.S. District Court to attempt to determine what makes a "common household antenna".

NFL expert Jack Hurray surveyed 624 outdoor antennas near the bars & found 6% had 10 or more elements, "the metal prongs that improve the reception qualities of an antenna". He said a "common antenna" has four or five elements and is 4-5' long. The antennas on the bars had 9 or more elements & were 7-10' long.

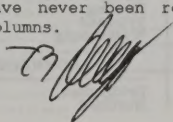
The bar owners hired their own expert, Walter Glazer. Glazer surveyed 420,000 northeast Ohio households with outdoor antennas (it may be a good sign for TV DXing that there still are 420,000 northeast Ohio households with outdoor antennas!) and found that 40% can receive broadcasts from Toledo, Erie, Detroit, Columbus, and/or Pittsburgh.

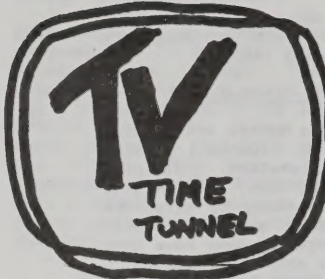
## DARK STATIONS?

Can anyone tell me if any of the below stations are on the air- or if any U.S. VHF stations not on this list are off? Thanks!

KOFT-3 Gallup	KZJC-4 Flagstaff
KLXO-7 El Centro	KRBQ-7 Sheridan
WWFD-8 Key West	WDHS-8 Iron Mtn.
WSVI-8 Christiansted	
KZXC-9 Anchorage	KVPY-9 Flagstaff
KUSM-9 Bozeman	WSUR-9 Ponce
KHBB-10 Helena	KTRG-10 Del Rio
WBNB-10 Charlotte	Amalie
KCHF-11 Santa Fe	KRXI-11 Reno
WLII-11 Caguas	WOLE-12 Aguadilla
KUSG-12 St. George	
WTJX-12 Charlotte	Amalie

These are VHF stations which have never been reported to the DX columns.





PREPARED FOR THE WTFOA BY TOM BRYANT, NASHVILLE, TN. THANKS TO WTFOAer TOM YINGLING FOR SENDING IT TO "TIME TUNNEL".

This listing of 'post-freeze' allocations which became effective April 14, 1952 makes for a fascinating study of long-term spectrum use by U.S. tv broadcasters. What has changed...and what hasn't during the past 40 years are of almost equal interest. (Reprinted from a National Radio Institute article authored by Mr. John Battison.)

## ALABAMA

	Channel No.
Andalusia	29
Anniston	37
Auburn	56
Bessemer	54
Birmingham	6, *10, 13, 42, 48
Brewton	23
Clanton	14
Cullman	60
Decatur	23
Demopolis	18
Dothan	9, 19
Enterprise	40
Eufaula	44
Florence	41
Fort Payne	15, 21
Gadsden	49
Greenville	40
Guntersville	31
Huntsville	17
Jasper	5, 8, 42
Mobile	12, 20, *26
Montgomery	22
Opelika	58
Selma	47
Sheffield	24
Sylacauga	64
Talladega	27
Thomasville	38
Troy	38
Tuscaloosa	45, 51
Tuskegee	16
University	*7

## ARIZONA

Ajo	14
Bisbee	15
Casa Grande	18
Clifton	25
Coolidge	30
Douglas	3
Eloy	24
Flagstaff	9, 13
Globe	34
Holbrook	14
Kingman	6
Mesa	28
Miami	28
Morenci	31
Nogales	17
Phoenix	3, 5, *8, 10
Prescott	15
Safford	21
Tucson	4, *6, 9, 13
Williams	25
Winslow	16
Yuma	11, 13

## ARKANSAS

Arkadelphia	34
Batesville	30
Benton	40
Blytheville	64
Camden	50
Conway	49
El Dorado	10, 26
Fayetteville	*13, 41
Forrest City	22
Fort Smith	5, *16
Harrison	24
Helena	54
Hope	15
Hot Springs	9, 52
Jonesboro	8, 39
Little Rock	*2, 4, 11, 17, 23
Magnolia	22
Malvern	46
Morrilton	43
Newport	28
Paragould	44
Pine Bluff	7, 36
Russellville	19

## ARKANSAS—(Continued)

	Channel No.
Searcy	33
Springdale	35
Stuttgart	14

## CALIFORNIA

Alturas	9
Bakersfield	10, 29
Brawley	25
Chico	12
Corona	52
Delano	33
El Centro	16
Eureka	3, 13
Fresno	12, *18, 24, 47, 53
Hamford	21
Los Angeles	2, 4, 5, 7, 9, 11, 13, 22, *28, 34
Madera	30
Merced	34
Modesto	14
Monterey (see Salinas)	
Napa	62
Oakland (see San Francisco)	
Oxnard	32
Petaluma	56
Port Chicago	15
Red Bluff	16
Redding	7
Riverside	40, 46
Sacramento	3, *6, 10, 40, 46
Salinas-Monterey	8, 28
San Bernardino	18, *24, 30
San Buenaventura	38
San Diego	8, 10, *15, 21, 27, 33, 39
San Francisco-Oakland	2, 4, 5, 7, *9, 20, 26, 32, 38, 44
San Jose	11, 48, *54, 60
San Luis Obispo	6
Santa Barbara	3, 20, 28
Santa Cruz	16
Santa Maria	44
Santa Paula	16
Santa Rosa	50
Stockton	13, 36, *42
Tulare	27
Ukiah	18
Visalia	43, 49
Watsonville	22
Yreka City	11
Yuba City	52

## COLORADO

Alamosa	19
Boulder	*12, 22
Canon City	36
Colorado Springs	11, 13, *17, 23
Craig	19
Delta	24
Denver	2, 4, *6, 7, 9, 25
Durango	6, 15
Fort Collins	45
Fort Morgan	15
Grand Junction	5, 21
Greeley	50
La Junta	24
Larver	25
Leadville	14
Longmont	32
Loveland	38
Montrose	10, 18
Pueblo	3, 5, *8, 28, 34
Salida	25
Sterling	25
Trinidad	21
Walsenburg	30

## CONNECTICUT

Bridgeport	43, 49, *71
Hartford	3, 18, *24

## CONNECTICUT—(Continued)

	Channel No.
Meriden	65
New Britain	30
New Haven	59
New London	28, 81
Norwalk (see Stamford)	
Norwich	57, *83
Stamford-Norwalk	27
Waterbury	53

## DELAWARE

Dover	40
Wilmington	12, 53, *59

## DISTRICT OF COLUMBIA

Washington	4, 5, 7, 9, 20, *26
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## FLORIDA

Belle Glade	25
Bradenton	28
Clearwater	32
Daytona Beach	2
De Land	44
Fort Lauderdale	17, 23
Fort Myers	11
Fort Pierce	19
Gainesville	*5, 20
Jacksonville	*4, *7, 12, 30, 38
Key West	14, 20
Lake City	33
Lakeland	16, 22
Lake Wales	14
Leesburg	26
Marianna	17
Miami	*2, 4, 7, 10, 27, 33
Ocala	15
Orlando	6, 9, 18, *24
Palatka	17
Panama City	*7, *30, 36
Pensacola	3, 15, *21, 46
Quincy	51
St. Augustine	25
St. Petersburg (see Tampa)	
Sanford	35
Sarasota	34
Tallahassee	*11, 24, 51
Tampa-St. Petersburg	*3, 8, 13, 38
West Palm Beach	5, 12, *15, 21

## GEORGIA

Albany	10, 25
Americus	31
Athens	60
Atlanta	2, 5, 11, *30, 36
Augusta	6, 12
Bainbridge	35
Brunswick	28, 34
Calro	45
Carrollton	38
Cartersville	63
Cedartown	53
Columbus	4, 28, *34
Cordele	43
Dalton	25
Douglas	32
Dublin	15
Elberton	16
Fitzgerald	23
Fort Valley	18
Gainesville	52
Griffin	39
La Grange	50
Macon	13, *41, 47
Marletta	57
Milledgeville	51
Moultrie	48
Newnan	61
Rome	9, 59
Savannah	3, *9, 11
Statesboro	22

# GEORGIA—(Continued)

Channel No.	
Swainsboro	20
Thomasville	6, 27
Tifton	14
Toccoa	35
Valdosta	37
Vidalia	26
Waycross	16

# IDAHO

Blackfoot	33
Boise	4, 7, 9
Burley	15
Caldwell	2
Coeur d'Alene	12
Emmett	26
Gooding	23
Idaho Falls	3, 8
Jerome	17
Kellogg	33
Lewiston	2
Moscow	15
Nampa	8, 12
Payette	14
Pocatello	6, 10
Preston	41
Rexburg	27
Rupert	21
Sandpoint	9
Twin Falls	11, 13
Wallace	27
Weiser	20

# ILLINOIS

Alton	48
Aurora	16
Belleville	54
Bloomington	15
Calro	24
Carbondale	34, 61
Centralia	32, 59
Champaign-Urbana	3, *12, 21, 27, 33
Chicago	2, 5, 7, 9, *11, 20, 26, 32, 38, 44
Danville	24
Decatur	17, 23
De Kalb	*67
Dixon	47
Elgin	28
Freeport	23
Galesburg	40
Harrisburg	22
Jacksonville	29
Joliet	48
Kankakee	14
Kewanee	60
La Salle	35
Lincoln	53
Macomb	61
Marion	40
Mattoon	46
Moline (see Davenport, Iowa)	
Mt. Vernon	38
Olney	16
Pekin	49
Peoria	8, 19, *37, 43
Quincy	10, 21
Rockford	13, 39, *45
Rock Island (see Davenport, Iowa)	
Springfield	2, 20, *26
Streator	65
Urbana (see Champaign)	
Vandalia	28
Waukegan	22

# INDIANA

Anderson	61
Angola	15
Bedford	39

# INDIANA—(Continued)

Channel No.	
Bloomington	4, *30, 36
Columbus	42
Connersville	38
Elkhart	52
Evansville	7, 50, *56, 62
Fort Wayne	21, *27, 33
Gary	50, *66
Hammond	56
Indianapolis	6, 8, 13, *20, 26, 67
Jasper	19
Kokomo	31
Lafayette	*47, 59
Lebanon	18
Logansport	51
Madison	25
Marion	29
Michigan City	62
Muncie	49, 55, *71
Richmond	32
Schellville	58
South Bend	34, *40, 46
Tell City	31
Terre Haute	10, *57, 63
Vincennes	44
Washington	60

# IOWA

Algona	37
Ames	5, 25
Atlantic	45
Boone	19
Burlington	32, 38
Carroll	39
Cedar Rapids	2, 9, 20, *26
Centerville	31
Charles City	18
Cherokee	14
Clinton	64
Creston	43
Davenport-Rock Island & Moline, Illinois	4, 6, *30, 36, 42
Decorah	44
Des Moines	8, *11, 13, 17, 23
Dubuque	56, 62
Estherville	24
Fairfield	54
Fort Dodge	21
Fort Madison	50
Grinnell	46
Iowa City	*12, 24
Keokuk	44
Knoxville	33
Marshalltown	49
Mason City	3, 35
Muscatine	58
Newton	29
Oelwein	28
Oskaloosa	52
Ottumwa	15
Red Oak	32
Shenandoah	40
Sioux City	4, 9, *30, 36
Spencer	42
Storm Lake	34
Waterloo	7, 16, *22
Webster City	27

# KANSAS

Abilene	31
Arkansas City	49
Atchison	60
Chanute	50
Coffeyville	33
Colby	22
Concordia	47
Dodge City	6, 23
El Dorado	55
Emporia	39
Fort Scott	27
Garden City	9, 11

# KANSAS—(Continued)

Channel No.	
Goodland	31
Great Bend	2, 28
Hays	7, 20
Hutchinson	12, 18
Independence	20
Iola	44
Junction City	25
Larned	15
Lawrence	*11, 17
Leavenworth	54
Liberal	14
McPherson	26
Manhattan	*8, 23
Newton	52
Olathe	52
Ottawa	21
Parsons	46
Pittsburg	7, 38
Pratt	36
Salina	34
Topeka	13, 42, *48
Wellington	24
Wichita	3, 10, 16, *22
Winfield	43

# KENTUCKY

Ashland	59
Bowling Green	13, 17
Campbellsville	16
Corbin	16
Danville	35
Elizabethtown	23
Frankfort	43
Glasgow	28
Harlan	36
Hazard	19
Hopkinsville	20
Lexington	27, 33
Louisville	3, 11, *15, 21, 41, 51
Madisonville	26
Mayfield	49
Maysville	24
Middlesborough	57, 63
Murray	33
Owensboro	14
Paducah	6, 43
Pikeville	14
Princeton	45
Richmond	60
Somerset	37
Winchester	37

# LOUISIANA

Abbeville	42
Alexandria	5, 62
Bastrop	53
Baton Rouge	10, 28, *34, 40
Bogalusa	39
Crowley	21
De Ridder	14
Eunice	64
Franklin	41
Hammond	51
Houma	30
Jackson	18
Jennings	48
Lafayette	38, 67
Lake Charles	7, *19, 25
Minden	30
Monroe	8, 43
Morgan City	36
Natchitoches	17
New Iberia	11
New Orleans	*2, 4, 6, 20, 26, 32, 61
Oakdale	54
Opelousas	58
Ruston	20
Shreveport	3, 12
Thibodaux	24
Winnfield	22

B.C.

WHO THE HECK IS THAT, DAD?

THAT'S YOUR UNCLE LOUIE.



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5-85



MAINE	
	Channel No.
Auburn .....	23
Augusta .....	10, 29
Bangor .....	2, 5, *16
Bar Harbor .....	22
Bath .....	65
Belfast .....	41
Biddeford .....	59
Calais .....	7, 20
Dover-Foxcroft .....	18
Fort Kent .....	17
Houlton .....	24
Lewiston .....	8, 17
Millinocket .....	14
Orono .....	*12
Portland .....	6, 13, *47, 53
Presque Isle .....	8, 19
Rockland .....	25
Rumford .....	55
Van Buren .....	15
Waterville .....	35

MARYLAND	
Annapolis .....	14
Baltimore .....	2, 11, 13, 18, *24, 30
Cambridge .....	22
Cumberland .....	17
Frederick .....	52
Hagerstown .....	52
Salisbury .....	16

MASSACHUSETTS	
Barnstable .....	52
Boston .....	*2, 4, 5, 7, 44, 50, 56
Brockton .....	20, 42
Fall River .....	40, 46
Greenfield .....	42
Holyoke (see Springfield) .....	
Lawrence .....	38
Lowell .....	32
New Bedford .....	28, 34
North Adams .....	15
Northampton .....	36
Pittsfield .....	64
Springfield-Holyoke .....	55, 61
Worcester .....	14, 20

MICHIGAN	
Alma .....	41
Alpena .....	9, 30
Ann Arbor .....	20, *26
Bad Axe .....	46
Battle Creek .....	58, 64
Bay City .....	5, 63, *73
Benton Harbor .....	42
Big Rapids .....	39
Cadillac .....	13, 43
Calumet .....	13
Cheboygan .....	4, 36
Coldwater .....	24
Detroit .....	2, 4, 7, 50, *56, 62
East Lansing .....	60
East Tawas .....	28
Escanaba .....	3
Flint .....	12, 16, *22, 28
Gladstone .....	40
Grand Rapids .....	8, *17, 23
Hancock .....	10
Houghton .....	19
Iron Mountain .....	9, 27
Iron River .....	31
Ironwood .....	31
Jackson .....	48
Kalamazoo .....	3, 36
Lansing .....	6, 54
Ludington .....	13
Manistee .....	15
Manistique .....	14
Marquette .....	5, 17
Midland .....	19

MICHIGAN—(Continued)	
	Channel No.
Mount Pleasant .....	47
Muskegon .....	29, 35
Petoskey .....	31
Pontiac .....	44
Port Huron .....	34
Rogers City .....	24
Saginaw .....	51, 57
Sault Ste. Marie .....	8, 10, 28, *34
Traverse City .....	7, 20, *26
West Branch .....	21

MINNESOTA	
Albert Lea .....	57
Alexandria .....	36
Austin .....	6, 51
Bemidji .....	24
Brainerd .....	55
Cloquet .....	44
Crookston .....	21
Detroit Lakes .....	18
Duluth-Superior, Wisc. .....	3, 6, *8, 32, 38
Ely .....	16
Fairmont .....	40
Faribault .....	40
Fergus Falls .....	16
Grand Rapids .....	20
Hastings .....	29
Hibbing .....	10
International Falls .....	11
Little Falls .....	14
Mankato .....	15
Marshall .....	22
Minneapolis-St. Paul .....	*2, 4, 5, 9, 11, 17, 23
Montevideo .....	19
New Ulm .....	43
Northfield .....	26
Owatonna .....	45
Red Wing .....	63
Rockester .....	10, 55
St. Cloud .....	7, 33
St. Paul (see Minneapolis) .....	
Stillwater .....	39
Thief River Falls .....	15
Virginia .....	26
Wadena .....	27
Winona .....	61
Worthington .....	32

MISSISSIPPI	
Biloxi .....	13, *44, 50
Brookhaven .....	37
Canton .....	16
Clarksdale .....	6, 32
Columbia .....	35
Columbus .....	28
Corinth .....	29
Greenville .....	21, 27
Greenwood .....	24
Grenada .....	15
Gulfport .....	9
Hattiesburg .....	17
Jackson .....	12, *19, 25, 47
Kosciusko .....	52
Laurel .....	33
Louisville .....	46
McComb .....	31
Meridian .....	11, 30, *36
Natchez .....	22
Pascagoula .....	29
Picayune .....	14
Starkville .....	34
State College .....	35
Tupelo .....	*20
University .....	35
Vicksburg .....	41
West Point .....	8, 56
Yazoo City .....	49

MISSOURI	
	Channel No.
Cape Girardeau .....	12, 18
Carthage .....	56
Caruthersville .....	27
Chillicothe .....	14
Clinton .....	49
Columbia .....	8, 16, 22
Farmington .....	52
Festus .....	14
Fulton .....	24
Hannibal .....	7, 27
Jefferson City .....	13, 33
Joplin .....	12, 30
Kansas City .....	4, 5, 9, *19, 25, 65
Kennett .....	21
Kirkville .....	3, 18
Lebanon .....	23
Marshall .....	40
Maryville .....	26
Mexico .....	45
Moberly .....	35
Monett .....	14
Nevada .....	18
Poplar Bluff .....	15
Rolla .....	31
St. Joseph .....	2, 30, *36
St. Louis .....	4, 5, *9, 11, 30, 36, 42
Sedalia .....	6, 23
Sikeston .....	37
Springfield .....	3, 10, *26, 32
West Plains .....	20

MONTANA	
Anaconda .....	2
Billings .....	2, 8, *11
Bozeman .....	*9, 22
Butte .....	4, 6, *7, 15
Cut Bank .....	20
Deer Lodge .....	20
Dillon .....	20
Glasgow .....	16
Glendive .....	18
Great Falls .....	3, 5, *23
Hamilton .....	17
Havre .....	9, 11
Helena .....	10, 12
Kalispell .....	8
Laurel .....	14
Lewistown .....	13
Livingston .....	16
Miles City .....	3, *6, 10
Missoula .....	*11, 13, 21
Poison .....	18
Red Lodge .....	18
Shelby .....	14
Sidney .....	14
Whitefish .....	16
Wolf Point .....	20

NEBRASKA	
Alliance .....	13, 21
Beatrice .....	40
Broken Bow .....	14
Columbus .....	49
Fairbury .....	35
Falls City .....	38
Freemont .....	52
Grand Island .....	11, 21
Hastings .....	5, 27
Kearney .....	13, 19
Lexington .....	23
Lincoln .....	10, 12, *18, 24
McCook .....	8, 17
Nebraska City .....	53
Norfolk .....	33
North Platte .....	2, 4
Omaha .....	3, 6, 7, *16, 22, 28
Scottsbluff .....	10, 16
York .....	15



Next page →

# NEVADA

	Channel No.
Boulder City	4
Carlin	14
Carson City	37
Elko	10
Ely	3, 6
Fallon	29
Goldfield	5
Hawthorne	31
Henderson	2
Las Vegas	8, *10, 13
Loveock	18
McGill	8
Reno	4, 8, *21, 27
Tonopah	7
Winnemucca	9
Yerington	33

# NEW HAMPSHIRE

Berlin	26
Claremont	37
Concord	27
Durham	*11
Hanover	*21
Keene	45
Laconia	43
Littleton	24
Manchester	9, 48
Nashua	54
Portsmouth	19
Rochester	51

# NEW JERSEY

Andover	*69
Asbury Park	58
Atlantic City	46, 52
Bridgeton	64
Camden	*80
Freehold	*74
Hammoncton	*70
Montclair	*77
Newark	13
New Brunswick	*19, 47
Paterson	37
Trenton	41
Wildwood	48

# NEW MEXICO

Alamogordo	17
Albuquerque	4, *5, 7, 13
Artesia	21
Atrisko-Five Points	18
Belen	24
Carlsbad	6, 23
Clayton	27
Clovis	12, 35
Deming	14
Farmington	17
Gallup	3, *8, 10
Hobbs	46
Hot Springs	19
Las Cruces	22
Las Vegas	14
Lordsburg	23
Los Alamos	20
Lovington	27
Portales	22
Raton	46, *52
Roswell	*3, 8, 10
Santa Fe	2, *9, 11
Silver City	*10, 12
Socorro	15
Tucumcari	25

# NEW YORK

Albany-Schenectady	
Amsterdam	6, *17, 23, 41
Auburn	37
Batavia	33

# NEW YORK—(Continued)

	Channel No.
Binghamton	12, 40, *46
Buffalo (also see Buffalo-Niagara Falls)	17, *23
Buffalo-Niagara Falls	2, 4, 7, 59
Corland	56
Dunkirk	46
Elmira	18, 24
Glens Falls	39
Gloversville	29
Hornell	50
Ithaca	*14, 20
Jamestown	68
Kingston	58
Malone	20, *66
Massena	14
Middletown	60
New York 2, 4, 5, 7, 9, 11, 25, 31	
Niagara Falls (see Buffalo-Niagara Falls)	
Ogdensburg	24
Olean	54
Oneonta	62
Oswego	31
Plattsburg	28
Poughkeepsie	21, *83
Rochester	5, 10, 15, *21, 27
Rome (see Utica)	
Saranac Lake	18
Schenectady (also see Albany)	
Syracuse	3, 8, *45
Troy (see Albany)	
Utica-Rome	13, 19, *25
Watertown	48

# NORTH CAROLINA

Ahoshkie	53
Albemarle	20
Asheville	13, *56, 62
Burlington	63
Chapel Hill	*4
Charlotte	3, 9, 36, *42
Durham	11, *40, 46
Elizabeth City	31
Fayetteville	18
Gastonia	18
Goldsboro	34
Greensboro	2, *51, 57
Greenville	9
Henderson	52
Hendersonville	27
Hickory	30
High Point	15
Jacksonville	16
Kannapolis	59
Kinston	45
Laurinburg	41
Lumberton	21
Mount Airy	55
New Bern	13
Raleigh	5, *22, 28
Roanoke Rapids	30
Rocky Mount	50
Salisbury	53
Sanford	39
Shelby	39
Southern Pines	49
Statesville	64
Washington	7
Wilmington	6, 29, *35
Wilson	36
Winston-Salem	12, 26, *32

# NORTH DAKOTA

Bismarck	5, 12, 18, *24
Bottineau	16
Carrington	26
Devon Lake	*8, 14
Dickinson	2, *4, 17
Fargo	6, 13, *34, 40
Grafton	17

# NORTH DAKOTA—(Continued)

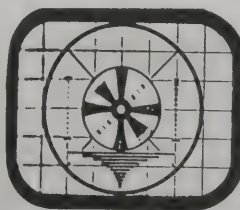
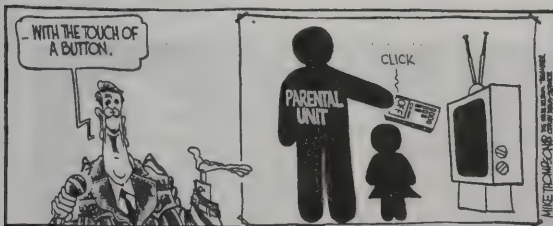
	Channel No.
Grand Forks	*2, 10
Harvey	22
Jamestown	7, 42
Lisbon	23
Minot	6, 10, 13
New Rockford	20
Rugby	38
Valley City	4, 32
Wahpeton	45
Williston	8, 11, *34

# OHIO

Akron	49, *55, 61
Ashtabula	15
Athens	62
Bellefontaine	63
Cambridge	26
Canton	29
Chillicothe	56
Cincinnati	5, 9, 12, *48, 54
Cleveland	3, 5, 8, 19, *25, 65
Columbus	4, 6, 10, *34, 40
Coshocton	20
Dayton	2, 7, *16, 22
Defiance	43
Findlay	53
Gallipolis	18
Hamilton-Middletown	65
Lancaster	28
Lima	35, 41
Lorain	31
Mansfield	36
Marion	17
Massillon	23
Middletown (see Hamilton)	
Mount Vernon	58
Newark	60
Oxford	*14
Piqua	44
Portsmouth	30
Sandusky	42
Springfield	46, 52
Steubenville (see Wheeling, W. Va.)	
Tiffin	47
Toledo	11, 13, *30
Warren	21
Youngstown	27, 33, 73
Zanesville	50

# OKLAHOMA

Ada	50
Altus	36
Alva	30
Anadarko	58
Ardmore	55
Bartlesville	62
Blackwell	51
Chickasha	64
Claremore	15
Clinton	32
Duncan	39
Durant	27
Elk City	12, 15
El Reno	56
Enid	5, 21, *27
Frederick	44
Guthrie	48
Guymon	20
Hobart	23
Holdenville	14
Hugo	21
Lawton	7, *28, 34
McAlester	47
Miami	58
Muskogee	8, *45, 66
Norman	31, *37
Oklahoma City	4, 9, *13, 19, 25
Okmulgee	26
Pauls Valley	61
Ponca City	40



# OKLAHOMA—(Continued)

	Channel No.
Fryor Creek .....	54
Sapulpa .....	42
Seminole .....	59
Shawnee .....	53
Stillwater .....	*69
Tulsa .....	2, 6, *11, 17, 23
Vinita .....	28
Woodward .....	8

## OREGON

Albany .....	55
Ashland .....	14
Astoria .....	30
Baker .....	37
Bend .....	15
Burns .....	16
Corvallis .....	*7, 49
Eugene .....	*9, 13, 20, 26
Grants Pass .....	30
Klamath Falls .....	30
La Grande .....	13
Lebanon .....	43
McMinnville .....	46
Medford .....	4, 5
North Bend .....	16
Pendleton .....	28
Portland .....	6, 8, *10, 12, 21, 27
Roseburg .....	28
Salem .....	3, *18, 24
Springfield .....	37
The Dalles .....	32

## PENNSYLVANIA

Allentown .....	39, 45
Altoona .....	10, 19, 25
Bethlehem .....	51
Bradford .....	48
Butler .....	43
Chambersburg .....	43
Du Bois .....	31
Easton .....	57
Emporium .....	42
Erie .....	12, 35, *41, 66
Harrisburg .....	27, 33, 71
Hazleton .....	63
Johnstown .....	6, 56
Lancaster .....	8, 21
Lebanon .....	15
Lewistown .....	38
Lock Haven .....	32
Meadville .....	37
New Castle .....	45
Oil City .....	64
Philadelphia .....	3, 6, 10, 17, 23, 29, *35
Pittsburgh .....	2, 11, *13, 16, 47, 53
Reading .....	55, 61
Scranton .....	16, 22, 73
Sharon .....	39
State College .....	*44
Sunbury .....	85
Uniontown .....	14
Washington .....	63
Wilkes-Barre .....	28, 34
Williamsport .....	36
York .....	43, 49

## RHODE ISLAND

Providence .....	10, 12, 16, *22
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## SOUTH CAROLINA

Alken .....	54
Anderson .....	58
Camden .....	14
Charleston .....	2, 5, *13
Clemson .....	*68
Columbia .....	10, *19, 25, 67
Conway .....	23
Florence .....	8

# SO. CAROLINA—(Continued)

	Channel No.
Georgetown .....	27
Greenville .....	4, 23, *29
Greenwood .....	21
Lake City .....	55
Lancaster .....	31
Laurens .....	45
Marion .....	43
Newberry .....	37
Orangeburg .....	44
Rock Hill .....	61
Spartanburg .....	7, 17
Sumter .....	47
Union .....	65

## SOUTH DAKOTA

Aberdeen .....	9, 17
Belle Fourche .....	23
Brookings .....	*8, 25
Hot Springs .....	17
Huron .....	12, 15
Madison .....	5, 26
Mitchell .....	5, 20
Mobridge .....	27
Pierre .....	6, 10, *22
Rapid City .....	7, 15
Sioux Falls .....	11, 13, 38, *44
Sturgis .....	21
Vermillion .....	*2, 40
Watertown .....	3, 35
Winner .....	18
Yankton .....	17

## TENNESSEE

Athens .....	14
Bristol .....	46
Chattanooga .....	3, 12, 43, 49, *55
Clarksville .....	53
Cleveland .....	38
Columbia .....	39
Cookeville .....	24
Corydon .....	16
Dyersburg .....	46
Elizabethton .....	40
Fayetteville .....	27
Gallatin .....	9, 16
Hartman .....	67
Humboldt .....	25
Jackson .....	9, 16
Johnson City .....	11, 34
Kingsport .....	28
Knoxville .....	6, 10, *20, 26
Lawrenceburg .....	50
Lebanon .....	58
McMinnville .....	46
Maryville .....	51
Memphis .....	3, 5, *10, 13, 42, 48
Morristown .....	54
Murfreesboro .....	18
Nashville .....	*2, 4, 5, 8, 30, 36
Oak Ridge .....	32
Palm Bay .....	51
Pulaski .....	44
Shelbyville .....	62
Springfield .....	42
Tullahoma .....	65
Union City .....	55

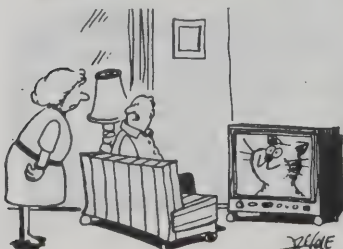
## TEXAS

Ablene .....	9, 33
Alice .....	34
Alpine .....	12
Amarillo .....	*2, 4, 7, 10
Athens .....	25
Austin .....	7, 18, 24, *30
Bay City .....	33
Beaumont-Port Arthur .....	4, 6, 31, *37

# TEXAS—(Continued)

	Channel No.
Beeville .....	38
Big Spring .....	4
Bonham .....	43
Borger .....	33
Brady .....	15
Breckenridge .....	14
Brenham .....	52
Brownfield .....	15
Brownville (also see Brownville-Harlingen-Weslaco) .....	36
Brownville-Harlingen-Weslaco (1) .....	4, 5
Brownwood .....	19
Bryan .....	54
Childress .....	40
Cleburne .....	57
Coleman .....	21
College Station .....	*3, 48
Conroe .....	20
Corpus Christi .....	6, 10, *16, 22
Corsicana .....	47
Crockett .....	56
Crystal City .....	28
Cuero .....	25
Dalhart .....	16
Dallas .....	4, 8, *13, 23, 29, 73
Del Rio .....	16
Denison .....	52
Denton .....	*2, 17
Eagle Pass .....	26
Edinburg .....	26
El Campo .....	27
El Paso .....	4, *7, 9, 13, 20, 26
Falfurrias .....	52
Floydada .....	45
Fort Stockton .....	22
Fort Worth .....	5, 10, 20, *26
Gainesville .....	49
Galveston .....	11, 35, 41, *47
Georgetown .....	64
Greenville .....	62
Harlingen (also see Brownville-Harlingen-Weslaco) .....	23
Hebbronville .....	58
Henderson .....	42
Hereford .....	19
Hillsboro .....	63
Houston .....	2, *9, 13, 23, 29, 39
Huntsville .....	15
Jacksonville .....	36
Jasper .....	36
Kermit .....	14
Kilgore .....	56
Kingsville .....	40
Lamesa .....	28
Lampasas .....	40
Laredo .....	8, 13, *15
Levelland .....	38
Littfield .....	32
Longview .....	32
Lubbock .....	5, 11, 13, *20, 26
Lufkin .....	9, 46
McAllen .....	20
McKinney .....	65
Marfa .....	19
Marshall .....	16
Mercedes .....	32
Mexia .....	50
Midland .....	2, 18
Mineral Wells .....	38
Mission .....	14
Monahans .....	9
Mount Pleasant .....	35
Nacogdoches .....	40
New Braunfels .....	62
Odessa .....	7, 24
Orange .....	43

(1) These assignments may be utilized in any community lying within the area of the triangle formed by Brownville, Harlingen and Weslaco.



"Martha! Would you get the darn cat out of the satellite dish?!"

# TEXAS—(Continued)

Channel No.	
Pampa	17
Farfall	33
Pearsall	31
Pecos	16
Perryton	22
Plainview	29
Port Arthur (see Beaumont)	
Quannah	42
Raymondville	42
Rosenberg	17
San Angelo	.6, 8, 17, *23
San Antonio	.4, 5, *9, 12, 35, 41
San Benito	48
San Marcos	53
Seguin	14
Seymour	24
Sherman	46
Snyder	30
Stephenville	32
Sulphur Springs	41
Sweetwater	12
Taylor	58
Temple	.16, 22
Terrell	53
Texarkana	.6, *18, 24
Tyler	.7, 19
Uvalde	20
Vernon	18
Victoria	19
Waco	.11, *28, 34
Waxahachie	45
Weatherford	51
Weslaco (see Brownsville-Harlingen-Weslaco)	
Wichita Falls	.3, 6, *16, 22

## UTAH

Brigham	36
Cedar City	5
Logan	.12, 30, *46
Ogden	.9, *18, 24
Price	6
Provo	28
Richfield	13
St. George	18
Salt Lake City	.2, 4, 5, *7, 20, 26
Tooele	44
Vernal	3

## VERMONT

Bennington	33
Brattleboro	58
Burlington	*16, 22
Montpelier	.3, 40
Newport	46
Rutland	49
St. Albans	34
St. Johnsbury	30

## VIRGINIA

Blacksburg	*60
Bristol (see Bristol, Tenn.)	
Charlottesville	*45, 64
Covington	44
Danville	24
Emporia	25
Farmville	19
Fredericksburg	47
Front Royal	39
Harrisonburg	.3, 34
Lexington	54
Lynchburg	.13, 16
Marion	50
Martinsville	35
Newport News (see Norfolk-Portsmouth-Newport News)	
Norfolk-Portsmouth (also see Norfolk-Portsmouth-Newport News)	27

# VIRGINIA—(Continued)

Channel No.	
Norfolk-Portsmouth-Newport News (also see Norfolk-Portsmouth)	.3, 10, 15, *21, 33
Norton	52
Petersburg	.8, 41
Portsmouth (see Norfolk-Portsmouth and also see Norfolk-Portsmouth-Newport News)	
Pulaski	37
Richmond	.6, 12, *23, 29
Roanoke	.7, 10, 27, *33
South Boston	14
Staunton	36
Waynesboro	42
Williamsburg	17
Winchester	28

## WASHINGTON

Aberdeen	58
Anacortes	34
Bellingham	.12, 18, 24
Bremerton	.44, 50
Centralia	.17
Ellensburg	.49, 55
Ephrata	43
Everett	.22, 28
Grand Coulee	37
Hogulam	52
Kelso	39
Kennewick (also see Kennewick-Richland-Pasco)	25
Kennewick-Richland-Pasco	.41
Longview	33
Olympia	60
Omak-Okanogan	*35
Okanogan (see Omak)	
Pasco (also see Kennewick-Richland-Pasco)	19
Port Angeles	18
Pullman	*10, 24
Richland (also see Kennewick-Richland-Pasco)	31
Seacon	.4, 5, 7, *9, 26
Spokane	.2, 4, 6, *7
Tacoma	.11, 13, *56, 62
Walla Walla	.5, 8, *22
Wenatchee	*45, 55
Yakima	.23, 29, *47

## WEST VIRGINIA

Breckley	.6, 21
Bluefield	41
Charleston	.8, *43, 49
Clarksburg	.12, 22
Elkins	.40
Fairmont	35
Hinton	.3, 13, *53
Huntington	23
Logan	23
Martinsburg	58
Morgantown	*24
Parkersburg	15
Welch	25
Weston	32
Wheeling (also see Wheeling-Steubenville, Ohio)	*57
Wheeling-Steubenville, Ohio	.7, 9, 51
Williamson	17

## WISCONSIN

Adams	*58
Appleton	42
Ashland	15
Beaver Dam	37
Beloit	57
Chilton	24
Eau Claire	.13, *19, 25

# WISCONSIN—(Continued)

Channel No.	
Fond du Lac	54
Green Bay	.2, 6
Janesville	63
Kenosha	61
La Crosse	.8, *32, 38
Madison	.3, *21, 27, 33
Manitowoc	65
Marinette	.11, 32, *38
Milwaukee	.4, *10, 12, 19, 25, 31
Oshkosh	48
Park Falls	*18
Portage	17
Prairie du Chien	34
Racine	.49, 55
Rhinelander	22
Rice Lake	21
Richland Center	.15, *66
Sheboygan	59
Shell Lake	*30
Sparta	50
Stevenson Point	.20, 26
Sturgeons Bay	44
Superior (see Duluth, Minn.)	
Wausau	.7, 16, *46
Wisconsin Rapids	14

## WYOMING

Buffalo	29
Casper	.2, 6
Cheyenne	.3, 5
Cody	24
Douglas	14
Evanston	14
Gillette	31
Green River	16
Greybull	40
Lander	17
Laramie	*8, 18
Lovell	36
Lusk	19
Newcastle	28
Powell	30
Rawlins	11
Riverton	10
Rock Springs	13
Sheridan	.9, 12
Thermopolis	15
Torrington	27
Wheatland	24
Worland	34

# U. S. TERRITORIES AND POSSESSIONS ALASKA

Anchorage	.2, *7, 11, 13
Fairbanks	.2, 4, 7, *9, 11, 13
Juneau	*3, 8, 10
Ketchikan	.2, 4, *9
Seward	.4, 9
Sitka	13

## HAWAIIAN ISLANDS

Lihue, Kauai	.3, *8, 10, 12
Honolulu, Oahu	.2, 4, *7, 9, 11, 13
Walluku, Maui	.3, 8, *10, 12
Hilo, Hawaii	.2, *4, 7, 9, 11, 13

## PUERTO RICO

Arecibo	13
Caguas	11
Mayaguez	3, 6
Ponce	.7, 9
San Juan	.2, 4, *6

## VIRGIN ISLANDS

Christiansted	8
Charlotte Amalie	.10, 12

abc

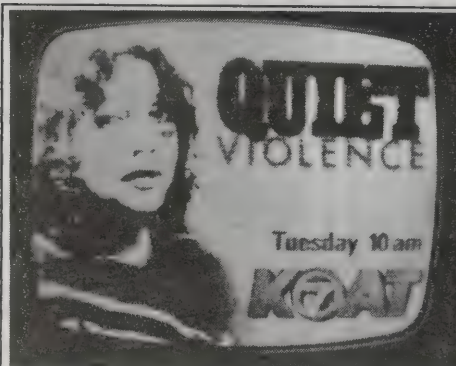


# PHOTO-NEWS

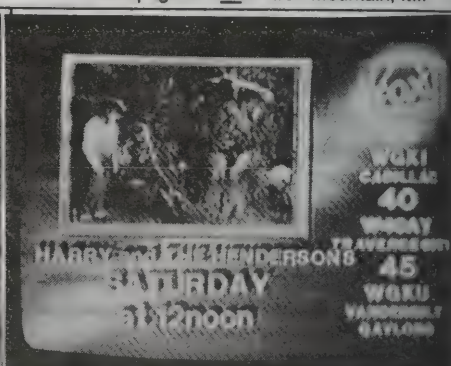
JANUARY  
1994

MAILING ADDRESS:  
PHOTO-NEWS  
12284 Nice Road  
Akron New York 14001-9529

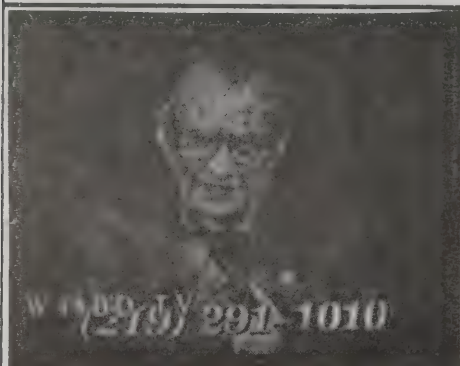
Jeff Kadet-Macomb Illinois. Equipment: ICOM R-7000 with video adapter; Zenith N1310 13" color set. Screened Channel Master 7' dish and RDX Labs UA-900 UHF preamp, feed is .5" aluminum hardline; antenna up 85 feet. For VHF, Channel Master 1110 Quantum with Winegard PA-1975 preamp, feed is .5" aluminum hardline, antenna up 80 feet. Winegard 5 element lo-band yagi (vertically polarized) with RG-11 feed, antenna up 18 feet. Correction Nov. 1993 Photo-News page 9: K67BA Iron Mountain, MI.



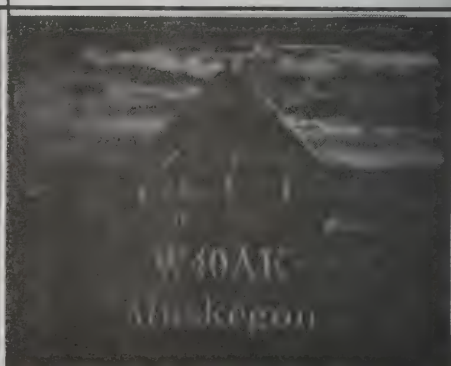
KVIO-6  
Carlsbad New Mexico  
916 mile E-skip seen July 1, 1993  
at 1821 CST  
Repeats KOAT-7 Albuquerque NM



WGKU-45  
Vanderbilt-Gaylord Michigan  
475 mile tropo seen July 6, 1993  
at 0600 CST



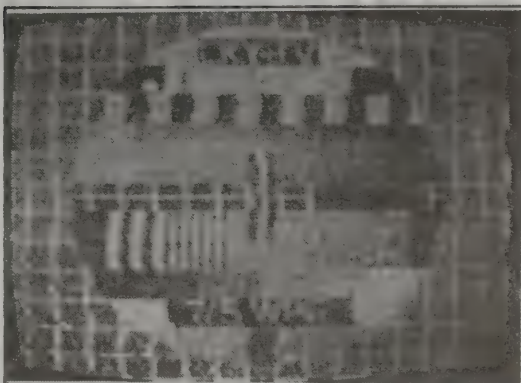
W48BD  
Corbin Kentucky  
410 mile tropo seen July 20, 1993  
at 0507 CST



W40AK  
Muskegon Michigan  
301 mile tropo seen August 27, 1993  
at 0230 CST

More from Jeff next time.

Tom Bryant -Nashville Tennessee (DX from Napoleon North Dakota) Equipment: ancient TV set, local cable system antennas on city water tower. "Enclosed pix is of CKY-tv (7) Winnipeg taken on the ancient set in room #1 of the Fettig Motel in Napoleon, ND (my home town) . I was there for a class reunion and found this mixing with KQCD-tv (7) (Dickinson, ND ed.) at 2 AM August 5. Signal source was the local cable system which has antennas on the city water tank for the locals ..KJRR (7) (Jamestown ND ed.) was off ...and this stuff showed up." "(Note...the "5" on the CKY-tv tp is their Winnipeg cable channel.)" Thanks for the interesting DX photo Tom.

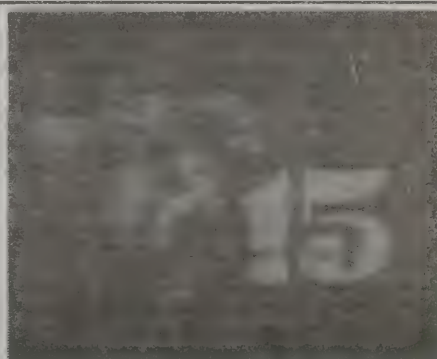


**CKY-7**  
Winnipeg Manitoba  
263 mile tropo  
seen August 5, 1993  
at 0200 CST

Joseph Fela - South Plainfield New Jersey  
Equipment: G.E. monitor, Antennacraft P-7  
dish on rotor at 35 feet , Winegard PA-4975  
preamp.



**W44AD**  
Onancock Virginia  
210 mile tropo seen August 29, 1993  
at 0100 EST  
(translator of WTKR-3 Norfolk VA)



**W25AA**  
Onancock Virginia  
210 mile tropo seen August 29, 1993  
at 0112 EST  
(translating WPDE-15 Florence SC)

W25AA Onancock VA is a translator of WHRO-15 Norfolk VA but do to the affects of hurricane Emily, W25AA was picking up WPDE-15 Florence South Carolina at a distance of 331 miles after WHRO signed off. Thanks for the DX photos Joe.

It's a new year and time for and old reminder. When you submit your photos besure to include the following information about your DX photo: calls, channel number, city of license, state province or country, distance in miles, mode of propagation, date of reception, time of reception is optionally. Some other tidbits you can add about your photos are; what the co-channel interference (CCI) is from, local or semi-local stations your DX catch had to over ride (include distance).

Till next time **DAVE**

# EASTERN TV-DX

Stephen West  
26 Dougherty Blvd. G-8  
Glen Mills, PA 19342

(215) 358-2648

January 1994

Deadline: January 5

November E-skip is the big event of the month. The best day was November 20th. Some DXers were able to squeeze some tropo from the troposphere. A new record for the shortest report is featured this month. I don't know if anyone can reclaim the record, how do you have less than one station to report?

Bill Nienajadly, P.O. Box 2999, Clifton, NJ 07015-2999

November 20th, Es 2200 KYTV-3 MO (MUF CH. 4)

Jeff Falconer, Box 63, Clinton, ON N0M 1L0 Canada

August 1993

10 Es 1252 WBRZ-2 LA (1058)  
1259 KATC-2 LA (1091)  
1300 WLBT-3 MS (913)  
1800 WTVJ-4 FL (1236)

Note: CFMT-69 & CHWI-16 testing.

August 1993

10 Es 1803 WEDU-3 FL (1084)  
1806 WPBT-2 FL (1171)  
28 gw 2320 CFMT-69 ON // CFMT-47  
September 1993

2 tr 1903 CHWI-16 ON (118)

Rick Shaftan, 39 Old Middletown Road, Rockaway, NJ 07866

(201) 586-3563 or DX Beeper (201) 661-5662, call don't write, busy.

Equipment: VHF; Channel Master 3517, RS outdoor amp w/20db gain. UHF; Channel Master 7' dish, Winegard PA8275 mast mount amp, RDX Labs balun, RG6 coax, Blonder Tongue mast mount amp used as an additional booster, providing 20db gain and 4.5db noise, with a total gain of 50db w/5.5db noise on UHF. Fortunately, NYC locals that cause overload are in a direction with no DX.

November 1993

24 tr 0833 WTVT-53 VA w/CT cci  
0847 W36BJ Atlantic City, NJ

November 1993

24 tr 1000 WFXI-8 NC  
Es seen on 11/21, 22 & 25, no ID

Dave Nieman - Ho Sta Geh Road - Rock City New York

Equipment: RCA 19" (model AER 191 W) b&w TV, Channel Master 3617B VHF antenna at 15 feet AGL (2405 feet ASL), on a Radio Shack rotor, Belden RG-8 coax feed into a Winegard FT-7600 FM trap (set to 95.7MHz) and Winegard DA-205 distribution amp. Antennacraft P-7 (7' dish) UHF antenna into a DX Tele Labs EU-4S preamp at 25 feet AGL (2415 feet ASL) on a Alliance U-100 rotor, Jerrold CAC-11 coax feed.

New loggings are underlined. New call {KKKK}.

October 1993

29 Tr 0310 WYNY 7 NY  
WKBW Buffalo NY off

November 1993

19229 TrS 1100 WJIG

55 NY 297



I started using my circa 1980 19" RCA (model AER 191 W) b&w TV from the Akron DX shack. I'm now seeing some fair troposcatter on UHF out to around 300 miles. I tried using the Harvard receiver/monitor with the Teknika TV tuner at home; it's not even a good monitor. Wish I would have bought two of the RCAs. Dave

Dave Nieman - 12284 Nice Road - Akron New York 14001-9529

Equipment: RCA 19" b&w TV with Teknika 8510 tuner, Channel Master 3617B VHF antenna on a CDE rotor at 23 feet AGL (813 feet ASL). Channel Master 4251 UHF antenna (7' dish) into a Blonder-Tongue CMA-Ub preamp on a crank up tower at 33 feet AGL (823 feet ASL) with Alliance HD-73 rotor. Using Jerrold CAC-11 coax for both antenna.

New loggings are underlined. New call {KKKK}.

October 1993

24 Es 1900 KSWK 3 KS 1235  
1930 KTBS 3 LA 1097

November 1993

12 TrS 1345 WTMW 14 VA  
HSCISpree

November 1993

288 20 Es 2000 KQTV 2 MO 870  
over local WGRZ Buffalo NY

LPTV; W39BC Buffalo has been off the air for a couple months. I hope for good! November turkey day was NOT a repeat of turkey day 1986 (no tropo). Maybe Decembers E-skip peak will be a good one this year. Dave

Thomas Yingling, 221 Pinewood Road, Baltimore, MD 21222-2345

August 1993

31 tr 2200 Raleigh, Boston U's

September 1993

1 tr 0001 WUNJ-39 NC (366)

0544 WCCB-18 NC (361)

WPDE-15 SC (372)

0600 WHLL-27 MA (328)

VIRGINIA'S LEADING NEWS CHANNEL...ON YOUR SIDE

From Nags Head, NC

October 1993

1 tr 0005 WNPB-24 WV (343)

WBRA-15 VA (264)

WEBA-14 SC (375)

WUNE-17 NC (345)

WLTX-19 SC (314)

W20AT NC "WVT-TV"

non-ID, Roanoke Rapids

WCES-20 GA (418)

From Nags Head, NC

October 1993

1 tr 0100 WHNS-21 NC (397)

WJPR-21 VA (240)

WOLO-25 SC (326)

WVFT-27 VA (264)



WAVY TV



0230

W32BA VA (TBN)

Lynchburg

WPBY-33 WV (401)

WGGT-48 NC (233)

0300 WMSY-52 VA (333)

Goldsboro W59BA NC (TBN)

7 tr 2145 WFXI-25 MA (347)

from MD WSBK-38 MA (347)

QTH WFMP-62 MA (355)

W44AI NY (180)

30 roof antennas came down for new roofing, more antennas are planned, the farm will grow!

Comments: Hurricane Emily DX from Baltimore was with limited antennas up, just a 2 foot corner reflector and RDX amp. I was down to the Outer Banks of NC while visiting the Virginia Beach ham-fest on October 1st.

Icom IC-R7000 Communications Receiver Icom AH-7000 Discone Sony KV-3AD11 8-inch color tv set

Icom IC-R100 Communications Receiver Icom IC-R71A for swl Sony KV-1214 12-inch color tv set

Jeff Wolf, 1131 University Blvd. W., Apt. 701, Silver Spring, MD 20902

November 1993

20 Es 1843 UNID-2 & 3

21 Es 0117 UNID-2

24 tr 0223 WUNI-27 MA (t)

November 1993

26 Es 1821 CUBA-2 (t)

tr 2218 WHMC-23 (t)

Raleigh NC U's

Stephen West, 26 Dougherty Blvd. G-8, Glen Mills, PA 19342-1140

From Nags Head, NC

November 1993

13 tr 0800 WPBH-30 GA (500)

to WGNX-44 GA (500)

WNGM-34 GA (500)

1030 WVEU-69 GA (500)

15 tr 0330 WLTX-19 SC (300)

WACH-57 SC (300)

November 1993

15 tr 0345 WAGT-26 GA (400)

WFXG-54 GA (400)

From Glen Mills, PA

20 Es 1900 WWL-4 LA (1086)

1930 KTIV-4 IA (1100)

2000 KJRH-2 OK (1143)

**KDKA**

Comments: 11/13 Atlanta was in steady but on the weak side. The 11/15 opening was snow free. Florida was probably in but I had a 6 1/2 hour drive from NC to PA the next day so I didn't check the ICOM. WFMZ-69 in Allentown, PA is much stronger now. I noticed the Ch. 42 in the Vineland, NJ area with spanish cartoons one morning. The new Ch. 40 in Wilmington, DE is transmitting from Boothwyn, PA with their TBN nonsense. They are about 4 miles away so they are the strongest local now. WTGI-61 interference is worse now due to a mixing of their signals. Why doesn't TBN have a toll free number on the screen? They seem to have plenty of money to build stations, why do people have to make a long distance call to them. I would like to complain to them for free. WCMC-40 tears up the frequency but it's better to have TBN on an already un-DXable channel.

Richard Contone, 162-07 87th Street, Jamaica, N.Y. 11414

Comments: I am using the same amplifier that brought good loggings all summer. (What is the brand name and model number? sw) The amplifier is at the focal point of my homemade parabolic antenna. (How many feet off the ground is the antenna mounted? sw) I am sending for QSLs and I have received many interesting responses.

(continued on page 22)

# WESTERN TV-DX

Fred McCormack  
PO Box 65666  
St. Paul MN 55165-0666

(612) 735-6860

Deadline: 02-10-94

Cut-off: 11-01-93

January 1994

The TV-DX highlights in November were a nice tropo opening on the 18th noted by Delaney, Eckberg, and yours truly (finally!) and E skip on the 20th noted by Kruska to New York and by Delaney to New Brunswick/Maine/Massachusetts.

CORRECTION - Robert Kramer advises that he erroneously reported W48AV with TCT in his report appearing in the October 1993 column. W48AV is on The Family Network.

New \_\_\_\_ New Mode \_\_\_\_ Tent. - t Unidentified - unid S/On - + S/off - =  
ID Color Bars - ● Unid Color Bars - % Misc. Test Patterns - &  
Parallel Programming - // MTS Stereo - \$

Robert Delaney, RR#4 Box 385, Mt. Vernon IL 62864 (KA9UVY) (618-242-7256)

CST

## Equipment:

1990 Zenith 13" color SS 1311W, Emerson 885 VCR. UHF ant: 7' parabolic CM 4251 ● 110' agl, UA 900 preamp, RG-11 coax. VHF ant: rotatable vertical dipole ● 25' agl for E skip, CM 3608 ● 55' agl. Camera: Pentax K 1000 with Kodak Gold Plus 200.

## November 1993

4 tr 0313 W67ALT 67 OH	4 tr 0440 WSYM 47 MI 365	18 tr 0530 KAWB 22 MN 625
(Eastlake WVIZ-25)	0446 WEAQ 49 OH 430	0532 WXCW 19 WI 400
( See Note # 1 )	0449 WNEO 45 OH 460	0540 WLEF 36 WI 530
0315 WVIZ 25 OH 435	0532 WWPBY 33 WV 365	0547 WHLA 31 WI 400
0316 WBNX 55 OH 435	WWSU 34 OH 345	0550 WKBN 32 IA 420
0318 WMFD 68 OH 375	15 tr 1825 KHOV 29 AR 325	0551 WMSN 47 WI 330
WLIO 35 OH 305	1858 KHBS 40 AR 390	0553 KKTIN 21 IA 425
0328 WOIO 19 OH 435	2116 KOCB 34 OK 510	0602 KYIN 24 IA 405
0329 WXON 20 MI 410	17 tr 1758 KYFC 50 MO 305	0616 KDUB 40 IA 305
0330 WKBD 50 MI 410	1759 KTKA 49 KS 380	0622 KSAX 42 MN 600
0347 W50BE 50 OH	1801 KSMO 62 MO 305	20 Es 1844 CHSJ 4 NB 1260
(Mansfield WMFD-68)	1921 KMCI 38 KS 340	1853 WLBZ 2 ME 1130
( See Note # 2 )	18 tr 0414 KITN 29 MN 515	1900 WGBH 2 MA 970
0352 WHIZ 18 OH 385	0424 WGVU 35 MI 355	21 tr 0340 W53AV 53 IN 180
0400 WFMJ 21 OH 480	0430 WOTV 41 MI 345	(Indianapolis LPTV)
0422 WUAB 43 OH 435	0431 WSYM 47 MI 365	( See Note # 3 )
0431 WAKC 23 OH 435	0500 KLGT 23 MN 515	
	0527 KXLI 41 MN 545	

Note # 1 - With WVIZ-25 test slide.

Note # 2 - With WMFD ID in right bottom corner of screen.

Note # 3 - With full slide showing "Hoosier TV 53", Indianapolis, bogus call "WAV" and full call W53AV.

Not much to report from here in November. The highlights would have to be the Minnesota opening of the 18th and the surprise E skip opening the evening of the 20th with CHSJ-4 photographed for a new Canadian province. 73 Es Good DX de Bob.

(Bob, I appreciate your high standards in logging, but I would certainly encourage you to regard W67AL and W50BE as positives. I do. fm)

Jeff Kruska, 7706-M N Jefferson Place Cir, Baton Rouge LA 70809 (504-923-0196)

CST

## Equipment: See December 1993 Western TV-DX

## November 1993

2 tr 2313 WBMG 42 AL 335	9 tr 2330 WLTZ 38 GA 390	20 Es 1824 WNBC 4 NY 1150
2331 WTTQ 21 AL 335	10 tr 0644 WPAN 53 FL 260	1858 WSTM 3 NY 1145
9 tr 2243 WATL 36 GA FOX	("Valuevision")	23 tr 2347 WHOA 32 AL 315
2325 WCOV 20 AL 315	17 tr 2040 WSFA 12 AL 315	24 tr 2233 WSFA 12 AL 315
	19 tr 0731 KNWS 51 TX 255	

## Jeff Kruszka (continued)

Note - KNWS-51. New station on the air! They ID as "Katy-Houston" (as if Houston needs another station), although their transmitter is in Missouri City. They show news and information, both local and CNN feed.

Nice to see some off-season skip. It was a surprisingly poor month for tropo - there are usually one or two bang up days of gulf tropo, but not this year, I guess. 73's, Jeff

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

## Equipment:

1966 Zenith b&w receiver ch 14N22, modified UHF tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish at 52'. RDX Labs UA700 and UA900 preamplifier respectively. Jerrold CAC11 cable. Yaseu G-400RC rotor.

<u>November 1993</u>				16 tr 0405	WMTU	16 TN	419	18 tr 0220	KTBO	14 OK	612
16 tr 0130	KHOG	29 AR	463	17 tr 2335	KSAX	42 MN	404	0543	KOZJ	26 MO	413
0140	KHBS	40 AR	513	2345	KXNE	19 NE	402	28 ms 0618	KPRY	4 SD	566
0200	WXMT	30 TN	408	2358	KHNE	29 NE	464	30 tr 1750	KSAX	42 MN	404
0400	WZTV	17 TN	408	18 tr 0035	KAWB	22 MN	391				

The new KPRY-4 logging was unusual. I was asleep with the TV on channel 4. I was awakened by a loud tone. On the screen was KSFY. Pierre 4 is a satellite of Sioux Falls KSFY-13.

Robert Kramer, Box 59681, Chicago IL 60659 (N9MBK) (312-262-6299)

COT

## Equipment:

R-7100, 1978 RCA 19" black & white, Sony 1923 19" color, Mitsubishi HS-422R Stereo VCR, Mitsubishi HS-U57 Stereo VCR, Channel Master 4257 UHF Quantum at 62' with Winegard AP-4700 hi-input preamp, Radio Shack attenuator, Channel Master 1110 Quantum at 55' with Winegard AP-3700 hi-input VHF preamp, Radio Shack attenuator, both fed with RG-11 coax, Alliance HD-73 rotor, Ricoh XRM camera loaded with Kodak T-Max 400 B&W film.

<u>September 1993</u>				17 tr 0125	KLAX	31 LA	779	23 tr 2233	KXLI	41 MN	413
16 tr 1749	KSPR	33 MO	443	0143	KTUL	8 OK	597	2236	KITN	29 MN	351
1756	KHOG	29 AR	533	0145	KOLR	10 MO	443	2332	KYIN	24 IA	296
1807	KHBS	40 AR	584	0200	KTEN	10 OK	694	2336	KMEG	14 IA	451
1832	KPOM	24 AR	584	1905	KSPR	33 MO	443	2340	KTIN	21 IA	336
1838	KOZK	21 MO	443	1930	KAIT	8 AR	450	24 tr 1845	KCCI	8 IA	309
1848	KSHB	41 MO	419	1949	KPTM	42 NE	430	1944	KDSM	17 IA	309
1902	WMPN	29 MS	677	1950	KSHB	41 MO	419	2203	KXLI	41 MN	413
1913	KARD	14 LA	693	1955	KSNT	27 KS	469	2358	K14AF	14 IA	227
1942	KTKA	49 KS	469	1958	WOWT	6 NE	430	(Decorah	KYIN-24)		
1950	KNOE	8 LA	692	2100	KTUL	8 OK	597	25 tr 0008	KMEG	14 IA	451
1958	KLTS	24 LA	731	2105	KTFQ	41 OK	597	0800	WOAC	67 OH	340
1959	KLPP	24 LA	843	2108	KWHB	47 OK	597				
2025	KFXK	51 TX	756	2154	KOLR	10 MO	443	<u>October 1993</u>			
2202	KODE	12 MO	497	2222	KODE	12 MO	497	6 tr 2255	KOZK	21 MO	443
2216	KHSS	33 LA	731	2232	KSNT	16 MO	497		KSPR	33 MO	443
2218	KXLN	45 TX	971	18 tr 0125	KHBS	40 AR	584	2305	KSHB	41 MO	419
2232	WXXV	25 MS	802	0135	KHOG	29 AR	533	2320	WOAC	67 OH	340
2357	KETH	14 TX	942	0228	KTXA	21 TX	825	2343	KMIZ	17 MO	323
17 tr 0007	KHTV	39 TX	942	0400	WITTO	21 AL	588	2350	KARD	14 LA	693
0032	KHSX	49 TX	812	0408	WHNT	19 AL	510	7 tr 0004	KOLR	10 MO	443
0102	KTXA	21 TX	825	0414	WZTV	17 TN	404	0008	KSNT	16 MO	497
0114	KDAF	33 TX	804	0420	WCOV	20 AL	664	0503	WOIO	19 OH	307
0119	KTXH	20 TX	942	0439	WAAY	31 AL	510				

The tropo on 9/16-18 was the best opening I never saw. I appeared to be on the eastern fringe of the opening. I mostly just got audio on the R-7100. Niel Kazaross just 10 miles or so from here, but further west, was getting color pictures. It still was a fantastic opening, my first ever tropo to TX, and my mileage records were shattered. I

Robert Kramer (continued) started back to work in July, so not as much DXing done. I am changing jobs again. I am going back to my old employer, the State of Illinois. It is real easy to get days off when cx are up. 73 de RK.

Keith Smith, 3924 Sims Ave, St. Ann MO 63074-1926 (314-429-0751)

CST

Equipment:

Zenith 19" colour TV with digital tuning. Radio Shack VHF/UHF/FM antenna with Archer rotor.

November 1993	24 tr 1754	WTHit 10 IN	28 tr 1202	KTVO 3 MO 155
22 tr 2057	WAND 17 IL 107	( See Note # 2 )	29 tr 1235	WUSI 16 IL 122
2127	WICS 20 IL 83	27 tr 0105	WRSP 55 IL 83	30 tr 1125
2153	WILL 12 IL 145	0121	WICS 20 IL 83	( See Note # 4 )
23 tr 2252	KYTV 3 MO 193	28 tr 1202	KOLR 10 MO 193	
2328	WPSDt 6 KY		unid channel 12	
	( See Note # 1 )		( See Note # 3 )	

Note # 1 - Coverage of a basketball game. "Kentucky" on banner. Could this be Kentucky State? WSIL-3 in during same period - almost a grade B signal!

Note # 2 - Carrying "CBS News with Connie Chung". Logged in again at 1800 with "Wheel of Fortune". (Does that check right? Terre Haute is on the eastern Central Time Zone border, so I don't know. Most CT VHF's air news at 1800.) WSIL-8 and KFVS-12 both in colour with clear grade B pix. KRCG-13 in with a colour picture - first time in awhile. (It's gotta be the snow!)

Note # 3 - Could be KIIN or WILL.

Note # 4 - Extremely rare. This PBS does not adequately serve the Columbia - Jefferson City, Missouri market and it's the only PBS within 75 miles of that market!

On the 28th, I logged a unid on 64 - possibly East St. Louis area (very snowy) - carrying Valuevision. Any calls for this one? (Call letters are K64DT. It is licensed to St. Louis with transmitter at One Mercantile Center. fm)

(Welcome to Western TV-DX. We hope to hear from you regularly. fm)

Fred McCormack, 2384 Teakwood Dr, Maplewood MN 55119-5520

CST

Equipment:

General Electric 9" color (Model 09GP103). VHF: Rabbit ears. UHF: Archer Radio-Shack 4 Bay (indoors at set).

November 1993	18 tr 0043	=KTKA 49 KS 435	18 tr 0300	=KYOU 15 IA 275
18 tr 0000	KDSM 17 IA 215	0100	WCIU 26 IL 340	0424
0005	WKOW 27 WI 215	0106	KSNF 16 MO 550	0752
0010	KSPR 33 MO 530	0112	KLJB 18(IL) 280	0753
0031	=KYNE 26 NE 295	0127	WGBA 26 WI 250	0945
0037	KSNt 27 KS 425	0300	KDEB 27 MO 535	KSPR 33 MO 530

Eastern TV-DX (continued from page 19)

January 1994

William R. Hepburn 35 Lockwood Rd. Brampton ON L6Y 4T7 CANADA

Rcvr: JVC HR-D630U VCR & Icom IC-R100

Ant: attic VHF dipoles & 2nd floor UHF 4-bay

OCTOBER 1993 (EDT)

07 TR 2223 WJAC-6 PA 231

Johnstown-Altoona

2230 WGPT-36 MD 295

Oakland

2304 WBRA-15 VA 447

Roanoke

08 TR 0501 WNEM-5 MI 204

Bay Cy-Sagnew-Fnt

24 ES 1951 MUF 4

30 ES 1145 MUF 3

NOVEMBER 1993 (EST)

16 TR 2233 WGBA-26 WI 411

20 ES 1847 WDAF-4 MO T

1848 KYTV-3 MO T

1850 KTVI-2 MO 655

1856 KLNE-3 NE 1033

Lexington

1859 KTVO-3 MO T

1900 KOET-3 OK 1014

Eufaula

20 ES 1907 WWL-4 LA 1105

1924 WBRZ-2 LA T

1925 MUF 6

1930 KETS-2 AR T

1953 KITV-4 IA 832

2129 WLBT-3 MS 978

Jackson

2146 KSNC-2 KS 1051

Notes: Oct 7 Tr - WGPT-36 MD Ided as 'MPT'. S/off @ 0105.  
- WBRA-15 VA makes Virginia state # 31.

# NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NEW YORK 14221  
e-mail: coniglio@acsu.buffalo.edu  
or also: V131KKDN@UBVMS.BITNET

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MI,IN,IL,WI,MN,IA,NE,SD,ND,MT,WY,ID,WA,OR,AK,Canada  
JANUARY 1994 DEADLINE: The 5th LOG CUTOFF: 3 months from postmark

## DAVE NIEMAN - HO STA GEH ROAD - ROCK CITY NEW YORK

Equipment: Carver TX-11 tuner IF filter modified. Channel Master model 4408 (Stereo Probe 9) at 25 feet AGL (2415 feet ASL). Winegard FT-7600 variable FM trap for 95.7MHz, Belden RG-8 coax and Radio Shack rotor.  
New loggings are underlined. New call (KKGK). New propagation mode WWWW.

### OCTOBER 1993 DX

29 tropo  
1349 WFGO 94.7 PA Erie, call, o\$ 81  
(Erie's all oldies station...) "FROGGY-94.7"

31 troposcatter  
0958 W211AK 90.1 PA Kane, g\$ 26  
(WMBI 90.1 Chicago IL)

### NOVEMBER 1993 DX

26 tropo  
1309 WKAB 103.5 PA Berwick, call, rm\$ 130  
1402 WQEQ 103.1 PA Freeland, area ads, o\$ 149

### NOVEMBER 26 tropo continued

1520 (WQBR) 99.9 PA Avis, call+"The Bear" 78  
k\$, ex WHUM  
1800 CJBC1 94.3 ON Belleville, call, t mono FF 170  
ex 95.5  
1900 CJOJ 95.5 ON Belleville, ID, r\$ 158  
28 Meteoroscatter  
0800 WXVS 90.1 GA Waycross, \$ 778  
(Peach State Public Radio)  
1053 (CJMJ) 108.1 ON Guelph, call, r\$ 135  
ex CKLA

In my November 1993 Northern FM DX report, I mentioned hearing a station on 90.1 possible a WKBU Kent Ohio satellite. Well it turned out being W211AL 90.1 Ashtabula OH a translator of WYSU 88.5 Youngstown OH. On October 31 I thought I relogged WMBI 90.1 Chicago; this one turned out being a translator for then on the same frequency. The mountains along the signals path must make it scatter in and out. It gives you the impression that your hearing a more distant station. I had to do some fine tuning of the FM trap to hear CJOJ 95.5 Belleville ON next to local WPIG 95.7. CJOJ and WPIG are both on the same antenna heading. Dave

## DAVE NIEMAN - 12284 NICE ROAD - AKRON NEW YORK 14001-9529

Equipment: Carver TX-11a tuner, Channel Master model 4408 (Stereo Probe 9) at 36 feet AGL on a crank up tower, (826 feet ASL). Alliance HD-73 rotor and Belden RG-8 coax.  
New loggings are underlined. New call (KKGK). New propagation mode WWWW.

### OCTOBER 1993 DX

9 troposcatter  
1600 WVOS 95.9 NY Liberty, call, rm\$ 211

25 tropo&scatter  
0800 CJBC1 94.3 ON Belleville, ID, tm Mono 113  
ex 95.1

1359 CBOC 95.5 ON Cornwall, tm Mono 236  
(CBC Eastern Ontario)

### NOVEMBER 1993 DX

Now that winter is here; I'll have to sit down and do a IF filter modification on the Carver tuner. Hope that everyone had the best of holidays. Dave

### 15 tropo

0627 CJOJ 95.5 ON Belleville, ID, r\$ 113  
(new station to the air, testing)

### 16 troposcatter

0901 WHTG 108.3 NJ Eastontown, ID, rp\$ 208  
(FM for the Jersey shore)

### 17 troposcatter

0734 WCDO 100.9 NY Sidney, ID, \$ 167

## RICHARD CONTONE - 162-07 87th ST. - JAMAICA, NEW YORK 11414

### NOVEMBER 1993 DX

#### 23 Tropo

2000 WFAS 103.9 NY White Plains 26

2000 WRCN 103.9 NY Riverhead-West Hampton

WRCN came out of nowhere while listening to WFAS..They blasted the classic "Layla" by Clapton and Cream..strictly classic rock. 57

I used a Realistic HT collapsible with the Archer 20 dB indoors to the STA-795. Hope December is a better month, Happy Turkey,

Richard Cantane

**FM99.9**  
**WEZN**  
10 MIDDLE STREET  
BRIDGEPORT, CT 06604

**FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606**

Equipment: Receiver-Carver TX-11a with five (TOKO) 110 khz filters modified, switched to 50 kHz tuning steps, and mute defeat mod. Antenna-Two CM Stereo Probe 9s (SP9s) (on separate masts) at 30' & 35' AGL. CAC-11 75 ohm coax feedlines (cut 1/2 wavelength difference at 100 Mhz), tuneable phase box (3 mini variable capacitors in series), directional coupler (signal combiner) and RS variable attenuator for antenna matching/phasing, and home brew tuneable band-pass filter box (3 mini variable capacitors, 3 air coils & input/output baluns). Underlined new to log (with stereo).

**OCTOBER 1993****16 GW RARE EVENT: WEZG-100.9 OFF AIR****10/16-10/23-OWNERSHIP CHANGE!**

0959 WBUG 101.1 NY Ft. Plain-The Bug-k	(77)
1003 WDHI 100.3 NY Delhi-USA Radio nx	(78)
1107 WMXO 100.9 NY Olean-Oldies	(138)
1204 WDST 100.1 NY Woodstock-finally!	
(mentioned 96.9)	(128)

**OCTOBER 18 Tr**

2201 CKEY 101.1 ON Ft Erie Key-FM m	(142)
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2246 CFBG 100.9 ON Bracebridge "FM101 Muskoka"	(205)
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**DECEMBER 11 Es (1815-2037) to TN/MS**

1952 WHRK 97.1 TN Memphis	
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2018 WPRL 91.7 MS Lorman	
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2018 WKTF 95.5 MS Jackson	
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Totals: 1639. Cashed in on local (700' to East) being off the air. Some format/ownership changes occurred around Central NY, affecting 100.9/94.9-r & 99.5-r. 78-7red

**BOB SMOLAREK - 31 MARK DRIVE - HIGH BRIDGE, NEW JERSEY 08829****AUGUST 1993 DX****22 Tr**

2035 WQLV 98.9 PA Millersburg, r	
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**23 Tr**

2137 WCDQ 100.9 NY Sidney, Mets baseball	
--	--

**29 Tr**

0100 WQZK 94.1 WV Keyser, rp	232
0102 WROG 102.9 MD Cumberland, k	
0120 WYSN 101.7 PA Central City, m	
0122 WETH 89.1 MD Hagerstown, c,	
relay of WETA 90.9 Washington	155

**30 Tr**

2100 WDOX 93.1 NJ Wildwood Crest, b,	
actually broadcasting on 93.0!	116

**HIGH COUNTRY**  
**KOEL 92.3 FM**

Hurricane Emily produced some of the best FM DX I've ever heard. It produced INCREDIBLE signal strengths. Washington D.C. stations were stronger than 50 kw stations 25 miles away in Trenton. WBIG in D.C. was way over semi-local WPLY in Media, Pa. WLAN 96.9 in Lancaster was so strong I would have thought they were 10 miles away.

**JEFF FALCONER - BOX 63 - CLINTON, ONTARIO CANADA N0M 1L0**

EQUIPMENT: Magnum Dynalab FT-101A, Stereo Probe 9 up 27' with rotor, RG-11 feed, Magnum Dynalab 205 preamp.

**JULY 1993 DX****25 TrS**

2100 CBLU 94.3 ON Huntsville, CBC English	
net in mono.	165

**AUGUST 1993 DX****7 MS**

0052 KRPt 103.7 OK Anadarko, "here in Oklahoma"	1071
0102 KEYN 103.7 KS Wichita, "...KEY..."	924

**10 Es**

1818 {WRLX} 92.1 FL W.Palm Beach, Relax 92.1,	
b\$ music, ex: WNGS	1171
1823 WZZR 92.7 FL Stuart, r\$, 92.7 ZZR	1137
1827 WGYL 93.7 FL Vero Beach, Light 93.7, rm\$	1106
1827 WXDJ 95.7 FL Homestead, SS\$	1254
1848 WCMQ 92.3 FL Hialeah, SS ads\$	1236

**August 31 Tr**

0027 WPTM 102.3 NC Roanoke Rapids	327
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0123 WLQM 101.7 VA Franklin, k	298
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0127 WYFL 92.5 NC Henderson, g	
parallel to WYFI 99.7	356

0815 WLSA 105.5 VA Louisa, k	248
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0816 WNND 103.9 NC Fuquay-Varina, j	405
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0817 WAKG 103.3 VA Danville, k	364
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0818 WQOK 97.5 VA S.Boston, s, K97.5	362
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0829 WJMA 96.7 VA Orange, r	240
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0908 WQRA 94.3 VA Warrenton, r	207
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0920 WGRQ 95.9 VA Colonial Beach, Q96	202
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1000 WFLO 95.7 VA Farmville,	299
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1000 WRFK 99.7 NC Kannapolis, rp	
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1002 WKSY 100.5 SC Marion, k	515
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1003 WJLC 95.3 VA S.Boston	349
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1004 WSMO 98.3 MD Mechanicsville, r	186
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1030 WGRX 100.7 MD Westminster	128
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## JEFF FALCONER'S report continues.

OCTOBER 1993 DX13 GW/Trs

- 1302 CKDK 102.3 ON Woodstock, r\$, ex 102.3  
parallel to 102.3 at this moment (102.3 now silent-gc) 52  
1309 CICX 105.9 ON Orillia, k, The New Kix FM 126



DX has slowed down to a trickle, mainly just call/frequency changes. Hoping for some mid December Es again this year. 73, *Qc66*

NOVEMBER 1993 DX9 Trs

- 1805 CJBC1 94.3 ON Belleville, CBC FF Mono  
Network, ex 95.5 210

13 Trs

- 1238 [WYHK] 95.7 OH Gibsonburg, k\$, Y95.7 ex WRED  
1411 WRBP 101.9 OH Hubbard, r\$, 102 Jams 185

RICK SHAFTAN - 39 OLD MIDDLETOWN RD. - ROCKAWAY, NEW JERSEY 07866

(201) 586-3563, Beeper for DX: (201) 661-5662. EQUIPMENT: Realistic STA-2280 with 7/110 khz filters (see McVey article, Nov. 1990), Channel Master 20 element TV 45' AGL, phased with FM 13 and Winegard AP-3800 Amp (32.9 dB gain, 3.2 dB noise figure), 30' AGL and the Bolin Phase Box. (IN CAR: Kenwood KRC-430 with two 110 khz filters). All times approximate.

SEPTEMBER 1993 DX14 Trs

- 0116 WQGN 105.5 CT Groton, w/WDHA off  
0120 WMJV 105.5 NY Patterson, Magic 105.5  
0122 WLVW 105.5 MD Salisbury, Oldies 105.5  
0130 WMGH 105.5 PA Tamaqua, Magic 105.5, call  
0136 WBNJ 105.5 NJ Cape May Courthouse,  
Country 105, I have gotten traces of this one thru  
WDHA with good trop to the South, proving the  
ability of the phase box (WDHA is 5 miles away, in  
the same direction)

NOVEMBER 1993 DX11 Trs

- 2006 WQBK 103.9 NY Rensselaer, "Your Classic  
Rock and Roll Station, WQBK"  
2202 CBOX 102.5 ON Ottawa, Radio Canada  
ID and news in French

12 Trs

- 0850 CHTZ 97.7 ON St.Catherines, 97-7 Hits FM  
1551 WWWD 97.7 PA Jersey Shore, 3WD  
1658 WPXC 106.9 NY Auburn, Picks 106.9

15 Trs

- 1030 WYHH 92.9 DE Smyrna, "Newsradio  
1410, WDOV Dover"

November 20 Trs

- 1101 WGRC 91.3 PA Lewisburg, "That's a  
look the weather from WGRC-FM"

23 GW

- 2138 WMRW 98.5 NY Westhampton, // WDRE,  
always there but just another part of the mess on this  
channel. Very strong in SE CT when we were there  
over Thanksgiving.

24 Tr

- 0918 WTEB 89.3 NC New bern, "here on WTEB"  
0927 WOTJ 90.7 NC Morehead City, religion  
through local WFUV New York  
1015 WNHW 92.5 NC Nags Head, c/w thru Phila  
1030 WOWI 102.9 VA Norfolk, promo for Fox 33.

29 Trs/GW

- 1900 WDLA 92.1 NY Walton, a nearest unheard  
Pointed antennae towards it and sat on the channel  
for several days. Got bursts of country previously  
but finally a legal ID, and news.  
2339 WJUX 88.7 NJ Franklin Lakes, pointed at em  
and they were parallel to pest 103.1. Closest unheard  
is now WVPH Piscataway, NJ. Closest unheard  
commercial station is WEZX Scranton PA.

Total now 882, looking for 900 by the end of 1993 but I don't think I'll get it unless we get a night or two of good Es in December. Next month, DX to and from Florida including Myrtle Beach and report on stacked FM 13s to be installed soon.

# Happy New Year

dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JR-S201 receiver (IF mod with 3 110 khz filters), Magnum Dynalab Sleuth 205 amp, Probe 9 fed with RG6 at 50 feet AGL, Crown Rotor, Distances are in kilometres.

**NOVEMBER 1993 DX****5 Tr**0712 **CJBC** 94.3 ON Belleville, CBC 2610734 **CJOI** 95.5 ON Belleville, "You're listening to the new CJOI 95 in Belleville, Ontario, We are currently testing our signal-call 613-966-0955 261**13 TrS**0722 **WCLR** 95.7 OH Piqua, o, Cool 95, // **WZLR** 95.3 Xenia, new format and non-ID, ex Clear 95 466**14 Leonids MS**0738 **WTKL** 97.3 LA New Orleans, "Right now in New Orleans it is 76" on the Northside, xxxx 72, and 72" along the lake" 1705**15 Tr**0738 **WYHK** 95.7 OH Gibsonburg, "Just for listening to Toledo's 12 in a row station, Y 95.7, ex **WTOD** (Bruce, note the calls are changed-gc) 313**Nov. 21 TrS**0902 **WFRG** 104.3 NY Utica, "WFRG Froggy 104"Ex: **WKGW**, new calls, format, non-ID 4101730 **WBYN** 107.5 PA Boyertown, "WBYN FM

107.5 The Voice of Gospel Music" 495

1732 **WEGW** 107.5 WV Wheeling, "Eagle 107

the best rock and roll" 339

1757 **WWKS** 106.7 PA Beaver Falls, "WWKS Beav

Falls, Monroeville, Pittsburgh, 106-7 The Force" 261

**22 Tr/MS**0649 **WUCX** 90.1 MI Bay City, "You're listening to Morning edition on WUCX FM, Delta College Public Radio." 2960840 **WXXS** 90.1 GA Waycross, wx report "Waycross and SE Georgia Today" 13360851 **WQI** 90.1 IA Ames, "In northern Iowa and NW Iowa". **40th STATE LOGGED!** 1098**GREG CONIGLIO - 5100 GLENWOOD DR. - WILLIAMSVILLE, NEW YORK 14221**

Equipment: Carver TX-11 tuner, modified with 150 khz filters. Stereo Probe 9 FM antenna, roof mounted, = 20' AGL, with rotor, CAC-11 and RG6 coax. Two capacitor in box phaser used, with Jerrold 10 element TV antenna, amplified with RS 0-10-20 dB FM amp.

**NOVEMBER 1993 DX****20 Es**2200 **KZNA** 90.5 KS Hill City, calls 1126**DECEMBER 1993 DX****11 Es**2020 **WBBN** 95.9 MS Taylorsville, American Country countdown, B-95 slogan 9812025 **WCKW** 92.3 LA LaPlace, op\$, calls 1119**14 Tr**2315 **WHEN** 107.9 NY Syracuse, k\$, calls way over local CING without phasing 130  
Central NY FMs in very strong.**15 Tr**1050 **WDOK** 102.1 OH Cleveland, phased over local CFNY. mr\$, calls 190**KJLS 103.3 FM**  
HAYS • GREAT BEND 147 West 13th, Hays, Kansas 67601

There has been quite a bit of off season E-skip this year. Does it seem to anyone that this happens a lot after a mediocre or poor Es season, while after good Es years there is not much skip? Another oddity that I have noticed is that each opening I have heard has been on a Saturday! (Only two have it FM so far but I have seen some more TV openings). See the e-skip summary somewhere in this issue, it turned out to be a mediocre year overall, but with abnormally low numbers of days with FM skip. For me personally, it was quite a good year; I guess I was lucky to be around at the right times. There weren't a lot of openings, but the few that I did have were very strong, sometimes easily overriding many locals with phasing. June was excellent here, but May and July were a disappointment, especially May. Tropes have been somewhat disappointing for the most part this year. There has not been any opening at all of any significance since the big openings to WI, MI, IN, and OH at the end of August, until last night (December 14). I am told though that we just missed very strong openings that affected the midwest in mid-September. We have not had enough stable, high pressure systems building over us to allow any decent tropo to set up. The highlight of 1993 has to be the 779 mi. FM trop to Jefferson City (KJMO 100.1) on June 17th, after just four hours earlier logging 1709 mi double hop FM to Monterrey, Mexico (Hi Fernando!) Thanks Matt Sittel for sending lots of logs!

## STATION NEWS:

**NORTHEAST:** In Avalon, New Jersey, WWOC 94.3 changes calls to WRDR, and is going classical. In nearby Delaware, WYHH 92.9 Smyrna is on the air. They relay WDOV 1410 Dover, which runs a news/talk format. And in Baltimore, WVRT 104.3 has begun to simulcast cross-town WMMX 106.5 'Mix 106.5'. In nearby Bethesda, Md., WLTT 94.7 is no more. They are yet another 'Arrow' station, WARW 'Arrow 94.7' which stands for an 'adult rock and roll' format. They are supposed to do this until January 1, 1994, when they will debut a new format. In the New York Metro area, some changes have occurred. WMRW 98.5 Westhampton, on Long Island, is on the air. They relay WDRE 92.7 Garden City, which is modern rock (WDRE also has a relay in the Philadelphia area by the way: WIBF 103.9 Jenkintown). There is some new from farther up the coast, in Maine. WHTH 107.5 has reportedly gone to a 'hot country' format, no word on any call change. WHQO, 107.9 in Skowhegan, has switched from oldies to light rock, with the slogan 'The light at the end of the dial'. WTVL 98.5 Waterville-Augusta has changed to a country format and 'B 98.5' (be careful, there are several stations with that slogan on 98.5, but as far as I know WTVL is the only one that is country). They have yet to change calls to reflect their new slogan. WCTB 93.5 in Fairfield, Me. is on the air, so far with just Christmas music, no word yet on what they will run afterwards. Rich Gallison says they will be happy to QSL, via WTOS 105.1 Skowhegan, who owns WCTB. WPME 95.5 Topsham, Me. is on the air and stereo, with country music. They are simulcasting with WCME 96.7 Boothbay Harbor.

**SOUTHEAST:** WKNF 94.3 Oak Ridge-Knoxville is back on after a long silence, with country oldies. WNNW 101.5 Jackson, Tenn. has signed on the air, with a news/talk format. It apparently is not parallel to the AM station in Memphis with the same calls and format. Speaking of the Memphis area, WYYA 95.7 Olive Branch, Ms. has reportedly signed on the air with new rock music. Just north of there, 101.9 in Central City, Kentucky becomes WQXQ, with a top 40 format. In the Carolinas, WKVS 103.3 Lenoir, NC is on the air. They are 'Kicks 103.3', and country. WTHP 98.3 Thomaston, NC goes to a Christian adult contemporary format. WMFX 102.3 in St. Andrews-Columbia is moving more in a classic rock direction. WYAV 104.1 Myrtle Beach, which recently added Howard Stern's show, has now gone classic rock. Moving to Alabama, two 98.3's in that state have changed format. WDLT Chickassaw-Mobile has gone urban 'Smooth 98.3'. And farther north, WAGH Ft. Mitchell-Columbus (GA) is now urban adult contemporary. Back in the Mobile area, WNSP 105.5 in Bay Minette is on the air, as 'News/Sports 105.5'. Some news from Mississippi this month as well. WIZK 93.5 in Bay Springs has become country, as

**Southeast cont:** 'I-93, Real Country'. WBAD 94.3 in Leland has LMAed a station in Greenwood, though we are not sure which. The stations are urban. WSSI 98.3 in Carthage is operating in mono. Two stations in MS are using the 'Classic 102' slogan. WWSL 102.3 Philadelphia, an oldies station, uses that, as does WAGR 102.5 in Lexington. WHLV-FM 102.5 Ellsville-Hattiesburg is 'Love 102.5'. WKNZ 101.7 Collins, Miss. is back to a country format. In Georgia, WMGB 93.7 Jeffersonville-Macon has come on the air, with a top 40 format. Moving down to Florida, WKGT 105.1 in Century is silent. WJED 91.1 in Dogwood Lakes in operating in mono. WTGF 90.5 in Milton, Fla. is on the air now, mono, with a gospel format. DeFunak Sps. 103.1 is WLGH, 'Light 103.1, the jazz station'. WNCV 100.3 Niceville-Fort Walton Beach is on, 'The Emerald Coast's New Love 100.3', soft AC format. WOWW 107.3 Pensacola is using 'The New Wow 107.3'. Another panhandle change, WPFM 107.9 Panama City goes modern rock, as '107 Dot 9'.

**MIDWEST:** WZXA 104.7 Sturtevant-Milwaukee is on with AC/oldies, 'Sunny 104.7'. WDKM 106.1 Adams, Wisc. is on with country. WMLI 96.3 Sauk City goes to a 'rock/AC' format. 107.1 in Fond du Lac, Wisc. changes calls to KFIZ-FM. In Michigan, I heard WKJC 104.7 Tawas City bragging 'also on 94.9' Perhaps this is the new WKJZ Hillman'. In Illinois, WDBR 103.7 Springfield goes to hot/ac, 'Variety 103.7'. In Oklahoma, 106.9 Muskogee changes to KHTS, to reflect its 'K-Hits' slogan. In the same Tulsa market, KCMA 92.1 Broken Arrow, classical during the day, adds modern rock at night.

**WEST:** In Texas 91.7 Austin has been assigned two sharetimers, KOOP, a Pacifica station, and KAEM, an alternative station at U of Texas (who wants different calls, KVRX perhaps, so they won't sound like calls that belong to rival Texas A&M). KRQA 99.7 in Amarillo is on, with a/c. KDSQ 101.7 Denison goes to an AC/oldies format. 98.3 Pleasanton/San Antonio becomes KBUC, classic San Antonio calls, and a country format. KLTR 93.7 Houston is no more, now KKRW, 'Arrow', for adult rock and roll. In Corsicana, 107.9 goes to a Spanish Tejano format, 'Kick', and KICI. In the Los Angeles area, 98.3 West Covina changes calls from KBOB to KMQA, Spanish and 'La Maquina'. KTMN 98.5 in Los Alamos-Albuquerque is on, with classic rock, 'The Mountain'. In Montana, top 40 KBOZ changes frequency from 93.7 to 97.5. 93.7 is now KATH, and country, with a 'Cat' slogan. Thanks to the following people for assistance with *Station News*: Doug Smith, Matt Sittel, Dave Nieman, dBruce Hall, Tim Noonan, Paul Mount, Rich Gallison, and Rich Shaftan. Oh I forgot to mention some changes, 106.3 Mt. Kisco now WMJU, ac simulcasting WMJV 105.5 Patterson. WWKS 106.7 Beaver Falls-Pittsburgh to hard rock 'The Force'. No call change has occurred as of yet.

# :SOUTHERN·FM DX:

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

JANUARY 1994

DEADLINE: 14th

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NV, OK, SC, TN, TX, UT, & WV. (Also MEXICO, S. AM, AUSTRALIA, NEW ZEAL.)

**IT'S 1994 ALREADY! HAPPY DXCITING NEW YEAR, AND MUCH MORE SO THAN '93 WAS.**

Doug Smith, 14 Brookside Court, Nashville, TN 37209-4503

Some real live DX! This from Warner Park, about 5 miles from home.

11/24 TrS

11/24 TrS

0957 WVHR	100.9 TN Huntingdon, good, ads 90	1001 WWYN	106.9 TN McKenzie, k	108
WHMA	100.5 AL Anniston, "Alabama 100" 182	WAKQ	105.5 TN Paris, r, "KQ-105"	82
1001 WEZK	97.5 TN Knoxville, leg. ID w/am 163	WFKX	95.9 TN Henderson, local as	112
WNWS	101.5 TN Jackson, tent. at 1001 but	WNZD	106.7 MS New Albany, "Wizard	161
full legal ID & G. Gordon Liddy show at 1134 106" & ID				

And 1143 106.3, two unIDs, one country the other religious. Suspect WKDZ-KY and WBTG-AL.



antennacraft P.O. Box 1005 Burlington, Iowa 52601 **FM ANTENNAS**

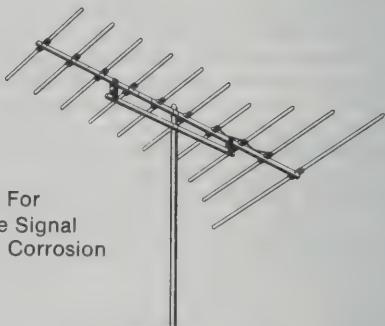
## FM-10

Boom Length 120"

10 Electronic Elements

Extreme Fringe Area

Triple-Driven Directional For  
Maximum Distortion-Free Signal  
Gold Alodized® To Fight Corrosion  
Cradle Mount Boom  
2-Piece Construction



## JAPANESE VS. AMERICAN-MADE CAR FM TUNERS: BETTER DX SIGNAL PERFORMANCE IN THE NISSANS?

When I purchased my 1990 Plymouth Horizon with its stock sound system I noticed that the radio's selectivity was better than that of the C.E.I. brand that I had in my 1973 Duster the last few years I had it. However, I found that the stereo in my girlfriend's 1991 Nissan, which is a "Clarion," is another step up. Parking both cars in the same spot in front of our house, I tuned to several stations with severe adjacent channel interference problems, to compare reception. The first test was WESM on 91.3, about 95 miles away sitting next to WBJC at 30 miles. It had some splash on the Nissan but was worse on the Plymouth. Next up the dial was WFOG on 92.9, sandwiched between local WMJS and WPOC. It came in weak and clear on the Nissan with slight splashing, but was inaudible on my car tuner. Then I tuned to WRVQ on 94.5, and as before could not be found on my car tuner but came in with a little interference on my girlfriend's. Both sets received WMDM (97.7) perfectly. Next was Baltimore's WVRT on 104.3 which sits next to WXTR in southern Maryland. The Nissan had no interference, but the Plymouth suffered from moderate splash. The I tuned WARKX on 106.9, which is next to local WJFK. It could barely be heard on the Horizon, but came in with some spillover in the Nissan. In checking for sensitivity I noticed another difference. In tuning for WKMZ from the West Virginia panhandle, both sets pulled in a reasonable signal, but on the older set WPST in New Jersey could also be heard. Similarly on 107.7 the Plymouth pulled in a second station behind WRCY. I drove the Nissan to work one day and found the difference in selectivity evident while moving also. For example, when moving south on the Baltimore-Washington parkway the Nissan gets WMMX (106.5) 3 miles into D.C. before WJFK starts to cut in, while the Plymouth allows splash 4 miles earlier. In summation the Nissan set is unreal, and it is scary to think what it would do with filter modification. It should also be noted that the Nissan set is similarly superior on the AM dial.

--Gus Mancuso

# FM STATISTICS

FRED NORDQUIST  
7945 BOXFORD RD  
CLAY, NY 13041  
e-mail: fidonet 1:260/374  
DEADLINE: THE 5TH

UPDATED 12/14/93

## FM SCOREBOARD

DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS	OF:
DYER	PAT	TX	SAN ANTONIO	2534	403	2071	67	0	44+	4	21	5	75	70 02/28/92
STROBEL	RALPH	IN	MUNCIE	2182	578	699	168	7	43+	7	3	2	56	72 09/02/93
MERRILL	FRANK	IL	MACOMB	1963	?	804	8	8	47	8	6	2	63	? 07/19/92
BUNTIN	DANNY	OK	STILLWATER	1957	325	1163	4	0	48+	5	9	2	65	74 09/01/92
PUGH	KEITH	AL	NEW HOPE	1907	297	964	95	18	46+	7	11	5	70	83 02/23/93
ELVING	BRUCE	MN	DULUTH	1750	318	1375	9	8	47+	4	1	0	53	48 02/10/92
EBELING	JOHN	MN	BLOOMINGTON	1744	298	1001	48	83	47+	6	5	0	59	52 01/01/93
FELA	JOSEPH	NJ	S. PLAINFIELD	1715	378	912	2	10	37+	6	0	3	47	68 10/08/93
CONIGLIO	GREG	NY	WILLIAMSVILLE	1701	300	843	24	38	41+	8	2	4	54	85 12/09/93
NORDQUIST	FRED	NY	CLAY	1645	345	805	48	59	41+	5	0	3	50	69 12/14/93
BUGAJ	MIKE	CT	ENFIELD	1592	234	970	25	23	37+	5	1	3	47	74 01/11/93
NIEMAN	DAVID	NY	AKRON	1512	409	467	53	27	43+	8	0	3	55	59 11/07/93
MCCORMACK	FRED	ND	FARGO	1339	305	990	3	52	48+	6	3	0	58	74 08/03/90
SEYBOLD	BOB	NY	DUNKIRK	1326	212	611	0	2	45	8	3	3	59	58 06/24/90
EBELING	JOHN	MN	PROSIT	1247	243	836	3	6	48+	9	2	0	60	75 01/01/93
JEFFERSON	JOHN	CA	DIABLO REGION	1212	274	705	?	1	29	4	6	0	39	74 11/14/92
ALLEN	DOUGLAS	CO	WOODLAND PARK	1122	168	854	83	19	40	5	4	0	49	88 08/24/93
HAWK	MIKE	NE	OMAHA	1080	203	491	29	0	47+	4	4	0	56	91 08/04/93
SMOLAREK	BOB	NJ	OLDWICK	1046	175	458	2	4	36+	4	0	2	43	78 01/10/93
BRUMFIELD	DAVE	IN	RICHMOND	897	165	325	15	0	36	4	2	2	44	81 09/01/91
SHAFTAN	RICHARD	NJ	ROCKAWAY	882	183	313	10	0	34+	4	0	1	40	78 11/30/93
HOLBROOK	HANK	MD	CHEVY CHASE *	866	224	234	18	0	35+	6	0	3	45	59 10/05/91
MICHALEK	ALAN	MA	SPRINGFIELD	812	106	495	0	0	36+	5	0	0	42	52 10/01/90
ROSS	ROBERT	ON	LONDON	760	214	308	0	0	34	7	0	2	43	76 07/27/92
OETTING	DANIEL	PA	EXTON	756	190	250	9	2	34+	6	0	0	41	77 06/07/91
JEFFERSON	JOHN	CA	ANTIOCH	710	172	358	43	1	21	4	4	0	29	88 11/14/92
GREENE	GEORGE	OH	AKRON	706	54	234	0	0	33+	3	0	0	37	71 03/09/91
SITTEL	MATT	FL	TALLAHASSEE	701	103	206	1	0	34	2	3	2	41	92 10/21/93
BRUMFIELD	DAVE	IN	MUNCIE	682	149	65	1	0	29	1	1	0	31	79 03/01/90
HALL	D. BRUCE	ON	BRANTFORD	670	121	69	96	2	39+	5	1	2	48	90 07/10/93
NIENAJADLY	BILL	NJ	CLIFTON	640	103	235	8	0	34+	2	0	1	38	75 01/30/92
NIEMAN	DAVID	NY	ROCK CITY	597	135	44	4	0	25+	2	0	0	28	91 11/07/93
WISEBLOOD	STEVEN	TX	BROWNSVILLE	520	110	174	2	0	26	0	5	6	37	92 07/10/93
MEADE	LARRY	IL	CHICAGO	459	85	65	6	0	23	2	0	0	25	79 09/05/90
SITTEL	MATT	NC	RALEIGH	456	66	164	0	2	23+	1	3	0	28	88 01/02/92
NOLLMAN	BILL	CT	NORWICH	453	46	155	17	0	31+	9	0	1	35	81 11/24/91
BRANDENBURG	TODD	KS	SILVER LAKE	418	68	58	1	0	27	1	0	0	28	80 07/14/92
MORGAN	GIL	MO	STOCKTON	357	34	3	0	0	16	0	1	0	17	93 11/09/93
GEORGE	PETER	MA	STOUGHTON	319	67	95	20	2	35+	5	0	0	41	67 06/02/93
MANCUSO	GUS	MD	CHEVERLY	318	55	61	0	0	23+	0	0	0	24	70 06/07/92
HEPBURN	WILLIAM	ON	BRAMPTON	309	183	83	1	6	21	2	0	1	24	85 11/10/91
RENFREW	JIM	NY	ROCHESTER	282	70	51	0	0	20+	2	0	0	23	76 07/10/92
MANCUSO	GUS	WV	BIRCH RIVER	248	28	4	0	0	15	0	0	0	15	87 06/05/92
MOONT	PAUL	NJ	MONMOUTH	195	25	20	0	0	17+	0	0	0	18	90 06/17/92
JEZIORSKI	MIKE	FL	CRESCENT BEAC	191	38	29	0	0	17	1	0	2	20	93 07/25/93
ONYSCHUK	KEN	IL	STEGER	168	35	0	0	0	7	0	0	0	7	68 08/09/93
MEADE	LARRY	KY	PRICE	165	35	0	14	0	10+	0	0	0	11	79 09/05/90
WHEELER	FRANK	PA	ERIE	162	23	2	0	0	8	1	0	0	9	64 08/20/90

\* VERIFIED.

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.)  
Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es=Total number of stations logged by E-skip. MS=Total by meteor scatter. Au=Total via Aurora. USA=Total number of states and the "+" = Washington, DC.  
CN=Number of Canadian provinces logged. MX=Number of Mexican states logged. PO=Number of foreign countries, but not Canada/Mexico. TPU (Total number of political units)=Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in AUGUST 88 VUD Page 48. Note: Now is the time to update and submit your latest stats to keep on the Scoreboard. Also submit any distance records, states stats and personal best statistics. Send via E-mail if you have computer/modem.  
Laserjet printouts of personalized DX distances covering FM/TV North/Central America and Caribbean cites (database=5165), with choice of miles or kilometers, are available for only \$2 donation. Include your DX location and grid coordinates with your order. 73...Fred.



# STATISTICS

MAILING ADDRESS:

David J. Nieman

12284 Nics Road

Akron New York 14001-8529

**JANUARY**

**1994**

DEADLINES: 5th of December, March, June & September

	Dixers Name	Dixers Location	Total	UHF	LPTV xtr	Es	MS	AU	USA	CN	MD	OF	TPU	YB	as of:	LAT.	LONG.
1	Kadet Jeff	IL Macomb	1307	837	359	234	3	0	45+	7	9	5	88	83	4/1/93	403030	904030
2	Seybold Bob	NY Silver Creek	1270	728	213	217	30	6	49+	7	1	5	83	50	8/17/93	423130	791130
3	Draeb William	WI Kaukaune	1131	580	191	210	113	1	43+	7	2	1	54	53	7/8/93	442730	873130
4	Kramer Robert	IL Chicago	832	364	83	108	30	0	40	7	3	4	54	71	9/25/93	420017	871500
5	Siegel Gary	OH Toledo	610	283	34	143	0	0	39+	6	1	2	49	70	4/10/93	414130	833030
6	Lapinski Mike	NY Jamestown	581	409	77	70	1	0	37+	6	0	3	47	78	4/23/93	420755	791330
7	Nieman Dave	NY Akron	553	363	76	90	5	0	37+	7	0	0	45	84	4/25/93	425824	783140
8	Combs John	FL Orlando	461	235	62	129	13	0	30+	2	6	9	48	72	5/23/93	283230	812330
9	Garcia Fernando	IL Cd. Guadalupe	426	261	56	68	0	0	28	0	5	4	37	91	11/4/93	253930	1001230
10	Bryant Tom	TN Nashville	383	184	18	78	3	0	30	4	4	1	39	64	9/18/93	360422	865615
11	Coniglio Greg	NY Williamsville	378	219	30	87	0	0	33	6	0	2	41	88	9/14/93	425907	784100
12	Norquist Fred	NY Clay	340	199	21	72	3	0	34+	6	0	1	42	89	4/27/93	430830	760830
13	Wheeler Frank	PA Erie	328	91	0	237	5	2	33+	9	0	0	44	53	6/20/93	420530	795530
14	Silist Matt	FL Tallahassee	316	166	22	78	0	0	26	2	5	3	36	92	10/9/93	302890	841830
15	Hepburn Bill	ON Brampton	311	216	34	47	0	0	29	5	0	0	34	85	5/31/93	434130	794730
16	Kruszka Jeff	LA Baton Rouge	240	158	34	27	0	0	20+	0	4	1	26	93	12/1/93	302700	910900
17	Nieman Dave2	NY Rock City	218	152	26	11	0	0	14+	3	0	0	18	91	12/5/93	420054	782812
18	Hanley Christopher	IL Galeburg	195	135	8	52	0	0	27	5	0	1	33	88	7/1/93	405730	902130
19	Allen Doug	CO Woodland Park	135	51	42	49	1	0	30	4	3	0	37	88	4/10/93	390030	1050330
20	Renfrew Jim	NY Rochester	92	35	4	34	0	0	17	3	0	0	20	89	4/1/93	430730	773630
21	Hanley Christopher2	NC Winston-Salem	90	36	0	22	0	0	18	2	0	1	21	80	7/1/93	360730	801330

## TV STATISTICS DISTANCE RECORDS

JANUARY 1994

Ch	Es	Tr	MS	AU	Call	COUN-Pro/Sta	City of License	Dist	Dixers Name	Dixers Location
1	2				CBUT	British Columbia	Vancouver	2111	Frank Wheeler	Erie PA
2	2	Tr			KETS	Arkansas	Little Rock	786	Fernando Garcia	Ciudad Guadalupe NL
3	2		MS							
4	2			AU						
5	3	Es			YVVK	VENEZUELA	Barcelona	2419	Greg Coniglio	Williamsville NY
6	3	Tr			KTBS	Louisiana	Shreveport	613	Fernando Garcia	Ciudad Guadalupe NL
7	3		MS		KTVO	Missouri	Kirksville	749	Dave Nieman	Akron NY
8	3			AU						
9	4	Es			KNBC	California	Los Angeles	2135	Frank Wheeler	Erie PA
10	4	Tr			WTVY	Alabama	Dothan	977	Fernando Garcia	Ciudad Guadalupe NL
11	4		MS		WRC	District of Columbia	Washington	733	Jeff Kadet	Macomb IL
12	4			AU						
13	5	Es			XHAJ	Venezuela	Las Lajas	1496	Jeff Kadet	Macomb IL
14	5	Tr			WPTV	Florida	West Palm Beach	1250	Fernando Garcia	Ciudad Guadalupe NL
15	5		MS		KHAS	Nebraska	Hastings	1033	Dave Nieman	Akron NY
16	5			AU						
17	6	Es			KRMA	Colorado	Denver	1312	Frank Wheeler	Erie PA
18	6	Tr			WBRC	Alabama	Birmingham	970	Fernando Garcia	Ciudad Guadalupe NL
19	6		MS							
20	6			AU						
21	7	Es								
22	7	Tr			WSVN	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
23	7		MS							
24	7			AU						
25	8	Es								
26	8	Tr			WFLA	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
27	8		MS							
28	8			AU						
29	9	Es								
30	9	Tr			WTVG	Tennessee	Chattanooga	1097	Fernando Garcia	Ciudad Guadalupe NL
31	9		MS							
32	9			AU						
33	10	Es								
34	10	Tr			KWTX	Texas	Waco	716	Jeff Kadet	Macomb IL
35	10		MS							
36	10			AU						
37	11	Es								
38	11	Tr			WINK	Florida	Fort Myers	1138	Fernando Garcia	Ciudad Guadalupe NL
39	11		MS							
40	11			AU						
41	12	Es								
42	12	Tr			WPEC	Florida	West Palm Beach	1250	Fernando Garcia	Ciudad Guadalupe NL
43	12		MS							
44	12			AU						
45	13	Es								
46	13	Tr			WTVT	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
47	13		MS							
48	13			AU						

## TV STATISTICS DISTANCE RECORDS

JANUARY 1994

	Ch	Es	Tr	REG	AU	Call	COU/Pro/Sta	City of License	Dist	DXers Name	DXers Location
49	14		Tr			WTLK	Georgia	Rome	1077	Fernando Garcia	Ciudad Guadalupe NL
50	14		Tr			WABW	Georgia	Pelham	1045	Fernando Garcia	Ciudad Guadalupe NL
51	15		Tr			WCEU	Florida	New Smyrna Beach	1203	Fernando Garcia	Ciudad Guadalupe NL
52	15		Tr			WOWL	Alabama	Florence	977	Fernando Garcia	Ciudad Guadalupe NL
53	16		Tr			WJVJ	South Carolina	Beaufort	1286	Fernando Garcia	Ciudad Guadalupe NL
54	16		Tr			WUSF	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
55	17		Tr			WLRN	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
56	17		Tr			WJKS	Florida	Jacksonville	1175	Fernando Garcia	Ciudad Guadalupe NL
57	18		Tr			WKCF	Florida	Clermont	1143	Fernando Garcia	Ciudad Guadalupe NL
58	18		Tr			WDHN	Alabama	Dothan	977	Fernando Garcia	Ciudad Guadalupe NL
59	19		Tr			WHNT	Alabama	Huntsville	1024	Fernando Garcia	Ciudad Guadalupe NL
60	19		Tr			KTEJ	Arkansas	Jonesboro	900	Fernando Garcia	Ciudad Guadalupe NL
61	20		Tr			WCES	Georgia	Wrens	1189	Fernando Garcia	Ciudad Guadalupe NL
62	20		Tr			WBBH	Florida	Fort Myers	1138	Fernando Garcia	Ciudad Guadalupe NL
63	21		Tr			WTCE	Florida	Fort Pierce	1233	Fernando Garcia	Ciudad Guadalupe NL
64	21		Tr			WBSG	Georgia	Brunswick	1198	Fernando Garcia	Ciudad Guadalupe NL
65	22		Tr			WCLF	Florida	Cleewester	1084	Fernando Garcia	Ciudad Guadalupe NL
66	22		Tr			KLTJ	Texas	Galveston	806	Jeff Kadet	Macomb IL
67	23		Tr			WLTW	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
68	23		Tr			KBSI	Missouri	Cape Girardeau	1020	Fernando Garcia	Ciudad Guadalupe NL
69	24		Tr			WMFE	Florida	Orlando	1173	Fernando Garcia	Ciudad Guadalupe NL
70	24		Tr			WGXA	Georgia	Macon	1113	Fernando Garcia	Ciudad Guadalupe NL
71	25		Tr			WPBF	Florida	Taquesta	1226	Fernando Garcia	Ciudad Guadalupe NL
72	25		Tr			WACS	Georgia	Dawson	1041	Fernando Garcia	Ciudad Guadalupe NL
73	26		Tr			WAGT	Georgia	Augusta	1216	Fernando Garcia	Ciudad Guadalupe NL
74	26		Tr			WEVU	Florida	Naples	1147	Fernando Garcia	Ciudad Guadalupe NL
75	27		Tr			WTCT	Illinois	Marion	1069	Fernando Garcia	Ciudad Guadalupe NL
76	27		Tr			WTXL	Florida	Tallahassee	1025	Fernando Garcia	Ciudad Guadalupe NL
77	28		Tr			WTGS	South Carolina	Hardeeville	1240	Fernando Garcia	Ciudad Guadalupe NL
78	28		Tr			WFTS	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
79	29		Tr			WFLX	Florida	West Palm Beach	1250	Fernando Garcia	Ciudad Guadalupe NL
80	29		Tr			WDGO	Georgia	Cochran	1117	Fernando Garcia	Ciudad Guadalupe NL
81	30		Tr			WAWS	Florida	Jacksonville	1175	Fernando Garcia	Ciudad Guadalupe NL
82	30		Tr			WSFP	Florida	Fort Myers	1138	Fernando Garcia	Ciudad Guadalupe NL
83	31		Tr			WFXL	Georgia	Albany	1054	Fernando Garcia	Ciudad Guadalupe NL
84	31		Tr			WAAY	Alabama	Huntsville	1024	Fernando Garcia	Ciudad Guadalupe NL
85	32		Tr			WTVM	Florida	Lakeland	1135	Fernando Garcia	Ciudad Guadalupe NL
86	32		Tr			WHOA	Alabama	Montgomery	955	Fernando Garcia	Ciudad Guadalupe NL
87	33		Tr			WBFS	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
88	33		Tr			WCFT	Alabama	Tuscaloosa	921	Fernando Garcia	Ciudad Guadalupe NL
89	34		Tr			WTVX	Florida	Fort Pierce	1233	Fernando Garcia	Ciudad Guadalupe NL
90	34		Tr			WNGM	Georgia	Athens	1158	Fernando Garcia	Ciudad Guadalupe NL
91	35		Tr			WDLF	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
92	35		Tr			WOFL	Florida	Orlando	1173	Fernando Garcia	Ciudad Guadalupe NL
93	36		Tr			WFTX	Florida	Cape Coral	1133	Fernando Garcia	Ciudad Guadalupe NL
94	36		Tr			WATL	Georgia	Atlanta	1100	Fernando Garcia	Ciudad Guadalupe NL
95	38		Tr			WTTA	Florida	Saint Petersburg	1090	Fernando Garcia	Ciudad Guadalupe NL
96	38		Tr			WLTZ	Georgia	Columbus	1031	Fernando Garcia	Ciudad Guadalupe NL
97	39		Tr			WDZL	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
98	39		Tr			KHTV	Texas	Houston	958	Robert Kramer	Chicago IL
99	40		Tr			WWSB	Florida	Sarasota	1098	Fernando Garcia	Ciudad Guadalupe NL
100	40		Tr			WTVW	Florida	Tallahassee	1025	Fernando Garcia	Ciudad Guadalupe NL
101	41		Tr			WMGT	Georgia	Macon	1113	Fernando Garcia	Ciudad Guadalupe NL
102	41		Tr			W41BN	Alabama	Dothan	977	Fernando Garcia	Ciudad Guadalupe NL
103	42		Tr			WXEL	Florida	West Palm Beach	1250	Fernando Garcia	Ciudad Guadalupe NL
104	42		Tr			WBMG	Alabama	Birmingham	970	Fernando Garcia	Ciudad Guadalupe NL
105	43		Tr			WMOD	Florida	Melbourne	1032	Jeff Kadet	Macomb IL
106	43		Tr			WGIQ	Alabama	Louisville	983	Fernando Garcia	Ciudad Guadalupe NL
107	44		Tr			WTOG	Florida	Saint Petersburg	1090	Fernando Garcia	Ciudad Guadalupe NL
108	44		Tr			WJTC	Florida	Pensacola	857	Fernando Garcia	Ciudad Guadalupe NL
109	45		Tr			WHFT	Florida	Miami	1244	Fernando Garcia	Ciudad Guadalupe NL
110	45		Tr			WTGI	Tennessee	Chattanooga	1097	Fernando Garcia	Ciudad Guadalupe NL
111	48		Tr			WNPL	Florida	Naples	1147	Fernando Garcia	Ciudad Guadalupe NL
112	48		Tr			WGNX	Georgia	Atlanta	1100	Fernando Garcia	Ciudad Guadalupe NL
113	47		Tr			WNFT	Florida	Jacksonville	1175	Fernando Garcia	Ciudad Guadalupe NL
114	47		Tr			W47BP	Mississippi	Hattiesburg	789	Fernando Garcia	Ciudad Guadalupe NL
115	48		Tr			WAFF	Alabama	Huntsville	1024	Fernando Garcia	Ciudad Guadalupe NL
116	48		Tr			KNOV	Texas	McAllen	894	Matt Stitt	Tallahassee FL
117	49		Tr			WTLH	Georgia	Bainbridge	1017	Fernando Garcia	Ciudad Guadalupe NL
118	49		Tr			KHSX	Texas	Irving	826	Robert Kramer	Chicago IL
119	50		Tr			WBHS	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
120	50		Tr			WFTY	District of Columbia	Washington	733	Jeff Kadet	Macomb IL
121	51		Tr			WSCV	Florida	Fort Lauderdale	1248	Fernando Garcia	Ciudad Guadalupe NL
122	51		Tr			WTVF	Pennsylvania	Reading	775	Jeff Kadet	Macomb IL
123	52		Tr			WTGL	Florida	Cocoa	1010	Jeff Kadet	Macomb IL
124	52		Tr			WS2BC	Alabama	Montgomery	955	Fernando Garcia	Ciudad Guadalupe NL
125	53		Tr			WFLU	Tennessee	Cleveland	1123	Fernando Garcia	Ciudad Guadalupe NL
126	53		Tr			KVHD	Colorado	Castle Rock	753	Jeff Kadet	Macomb IL
127	54		Tr			WFXG	Georgia	Augusta	1216	Fernando Garcia	Ciudad Guadalupe NL
128	54		Tr			WXTX	Georgia	Columbus	1031	Fernando Garcia	Ciudad Guadalupe NL
129	55		Tr			WACX	Florida	Leesburg	1148	Fernando Garcia	Ciudad Guadalupe NL
130	55		Tr			WSST	Georgia	Cordele	1084	Fernando Garcia	Ciudad Guadalupe NL
131	56		Tr			WFSG	Florida	Tallahassee	1025	Fernando Garcia	Ciudad Guadalupe NL
132	58		Tr			WLVI	Massachusetts	Cambridge	1019	Jeff Kadet	Macomb IL

	Ch	Es	Tr	MS	AU	Call	COU/Pro/Sta	City of License	Dist	DXers Name	DXers Location
133	57		Tr			W57BA	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
134	57		Tr			W57BV	Alabama	Florence	977	Fernando Garcia	Ciudad Guadalupe NL
135	58		Tr			WNJB	New Jersey	New Brunswick	850	Jeff Kadet	Macomb IL
136	58		Tr			W58BO	Mississippi	Natchez	671	Fernando Garcia	Ciudad Guadalupe NL
137	59		Tr			WJEB	Florida	Jacksonville	1175	Fernando Garcia	Ciudad Guadalupe NL
138	59		Tr			K59DG	Louisiana	New Orleans	687	Fernando Garcia	Ciudad Guadalupe NL
139	60		Tr			WTJP	Alabama	Gadsden	1028	Fernando Garcia	Ciudad Guadalupe NL
140	60		Tr			KVDA	Texas	San Antonio	883	Jeff Kadet	Macomb IL
141	61		Tr			WDSI	Tennessee	Chattanooga	1097	Fernando Garcia	Ciudad Guadalupe NL
142	61		Tr			WTGI	Delaware (NJ)	Wilmington	799	Jeff Kadet	Macomb IL
143	62		Tr			W82AY	Maryland	Fredenck	705	Jeff Kadet	Macomb IL
144	62		Tr			K62AH	Colorado	Cheyenne Wells	631	Jeff Kadet	Macomb IL
145	63		Tr			WHSG	Georgia	Monroe	1136	Fernando Garcia	Ciudad Guadalupe NL
146	63		Tr			W83AB	Pennsylvania	Mansfield	711	Jeff Kadet	Macomb IL
147	64		Tr			W84BB	Mississippi	Jackson	758	Fernando Garcia	Ciudad Guadalupe NL
148	64		Tr			W84BB	Mississippi	Jackson	567	Jeff Kadet	Macomb IL
149	65		Tr			W85BG	Florida	Tallahassee	1025	Fernando Garcia	Ciudad Guadalupe NL
150	65		Tr			WSTJ	New Jersey	Vineland	829	Jeff Kadet	Macomb IL
151	66		Tr			WSWS	Alabama	Opelika	618	Jeff Kadet	Macomb IL
152	66		Tr			WETG	Pennsylvania	Erie	560	Jeff Kadet	Macomb IL
153	67		Tr			W67CO	Alabama	Huntsville	1024	Fernando Garcia	Ciudad Guadalupe NL
154	67		Tr			W5NL	New York	Smithtown	914	Jeff Kadet	Macomb IL
155	68		Tr			WABM	Alabama	Birmingham	970	Fernando Garcia	Ciudad Guadalupe NL
156	68		Tr			WWHT	New Jersey (NY)	Newark	864	Jeff Kadet	Macomb IL
157	69		Tr			WHYS	Florida	Hollywood	1248	Fernando Garcia	Ciudad Guadalupe NL
158	69		Tr			WVEU	Georgia	Atlanta	1100	Fernando Garcia	Ciudad Guadalupe NL
159	70		Tr			K70EN	Kansas	Manhattan	326	Jeff Kadet	Macomb IL
160	70		Tr			K70OR	Minnesota	Blue Earth	280	Jeff Kadet	Macomb IL
161	71		Tr			K71BO	Kansas	Herington	356	Jeff Kadet	Macomb IL
162	71		Tr			W71AI	New York	Stamford	202	Dave Nieman	Akron NY
163	72		Tr			W72AT	Pennsylvania	East Towanda	749	Jeff Kadet	Macomb IL
164	72		Tr			W72AJ	Michigan	Escanaba	562	Robert Kramer	Carbondale IL
165	73		Tr			W73AR	New York	Arcade	32	Dave Nieman	Akron NY
166	73		Tr								
167	74		Tr			K74DZ	Minnesota	Winona	247	Jeff Kadet	Macomb IL
168	74		Tr			K74CO	Iowa	Ottumwa	97	Jeff Kadet	Macomb IL
169	75		Tr			K75CH	Kansas	Junction City	341	Jeff Kadet	Macomb IL
170	75		Tr			W75AQ	New York	Edmeston	167	Dave Nieman	Akron NY
171	76		Tr			W76AA	Michigan	Iron Mountain	561	Robert Kramer	Carbondale IL
172	76		Tr			W76AF	New York	Jefferson	202	Dave Nieman	Akron NY
173	77		Tr			W77AA	Michigan	Iron Mountain	561	Robert Kramer	Carbondale IL
174	77		Tr								
175	78		Tr								
176	78		Tr								
177	79		Tr			W79AY	New York	Worcester	192	Dave Nieman	Akron NY
178	79		Tr			CITY	Ontario	Toronto	111	Frank Wheeler	Erie PA
179	80		Tr								
180	80		Tr								
181	81		Tr			W81AM	New York	Milford	183	Dave Nieman	Akron NY
182	81		Tr			W81AI	New York	Franklinville	42	Dave Nieman	Akron NY
183	82		Tr								
184	82		Tr								
185	83		Tr			W83AS	Wisconsin	La Crosse	229	Jeff Kadet	Macomb IL
186	83		Tr								

## STATE/PROVINCE &amp; FOREIGN COUNTRY STATS

JANUARY 1994

	COU/Pro/Sta	#1 Total	#1 DXers Name	#1 DX Location	#2 Total	#2 DXers Name	#2 DX Location
1	UNITED STATES:						
2	Alabama	46	Jeff Kadet	Macomb IL	34	Fernando Garcia	Ciudad Guadalupe NL
3	Alaska	0			0		
4	Arizona	5	Jeff Kadet	Macomb IL	2	Fernando Garcia	Ciudad Guadalupe NL
5	Arkansas	26	Jeff Kadet	Macomb IL	8	Fernando Garcia	Ciudad Guadalupe NL
6	California	2	Fernando Garcia	Ciudad Guadalupe NL	1	Frank Wheeler	Erie PA
7	Colorado	16	Jeff Kadet	Macomb IL	5	Frank Wheeler	Erie PA
8	Connecticut	5	Dave Nieman	Akron NY	4	Jeff Kadet	Macomb IL
9	Delaware	0			0		
10	District of Columbia	5	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
11	Florida	80	Matt Sittel	Tallahassee FL	65	Fernando Garcia	Ciudad Guadalupe NL
12	Georgia	33	Matt Sittel	Tallahassee FL	32	Jeff Kadet	Macomb IL
13	Hawaii	0			0		
14	Idaho	4	Jeff Kadet	Macomb IL	0		
15	Illinois	73	Jeff Kadet	Macomb IL	23	Dave Nieman	Akron NY
16	Indiana	66	Jeff Kadet	Macomb IL	22	Dave Nieman	Akron NY
17	Iowa	62	Jeff Kadet	Macomb IL	6	Dave Nieman	Akron NY
18	Kansas	33	Jeff Kadet	Macomb IL	6	Greg Consiglio	Williamsville NY
19	Kentucky	38	Jeff Kadet	Macomb IL	10	Dave Nieman	Akron NY
20	Louisiana	42	Fernando Garcia	Ciudad Guadalupe NL	23	Jeff Kadet	Macomb IL
21	Maine	3	Jeff Kadet	Macomb IL	1	Dave Nieman	Akron NY
22	Maryland	9	Jeff Kadet	Macomb IL	6	Dave Nieman	Akron NY
23	Massachusetts	10	Dave Nieman	Akron NY	4	Jeff Kadet	Macomb IL
24	Michigan	72	Jeff Kadet	Macomb IL	39	Dave Nieman	Akron NY
25	Minnesota	109	Jeff Kadet	Macomb IL	3	Dave Nieman	Akron NY

	COU/Pro/Sta	#1 Total	#1 DXers Name	#1 DX Location	#2 Total	#2 DXers Name	#2 DX Location
26	Mississippi	26	Jeff Kadet	Macomb IL	24	Fernando Garcia	Ciudad Guadalupe NL
27	Missouri	59	Jeff Kadet	Macomb IL	9	Dave Nieman	Akron NY
28	Montana	6	Jeff Kadet	Macomb IL	0		
29	Nebraska	29	Jeff Kadet	Macomb IL	10	Frank Wheeler	Erie PA
30	Nevada	3	Fernando Garcia	Ciudad Guadalupe NL	2	Jeff Kadet	Macomb IL
31	New Hampshire	2	Dave Nieman	Akron NY	0		
32	New Jersey	6	Dave Nieman	Akron NY	5	Jeff Kadet	Macomb IL
33	New Mexico	5	Jeff Kadet	Macomb IL	0		
34	New York	97	Dave Nieman	Akron NY	53	Dave Nieman	Rock City NY
35	North Carolina	19	Jeff Kadet	Macomb IL	2	Dave Nieman	Akron NY
36	North Dakota	10	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
37	Ohio	83	Jeff Kadet	Macomb IL	52	Dave Nieman	Akron NY
38	Oklahoma	30	Jeff Kadet	Macomb IL	14	Fernando Garcia	Ciudad Guadalupe NL
39	Oregon	0			0		
40	Pennsylvania	47	Dave Nieman	Akron NY	42	Dave Nieman	Rock City NY
41	Rhode Island	2	Dave Nieman	Akron NY	1	Jeff Kadet	Macomb IL
42	South Carolina	5	Jeff Kadet	Macomb IL	3	Fernando Garcia	Ciudad Guadalupe NL
43	South Dakota	18	Jeff Kadet	Macomb IL	6	Dave Nieman	Akron NY
44	Tennessee	47	Jeff Kadet	Macomb IL	11	Fernando Garcia	Ciudad Guadalupe NL
45	Texas	115	Fernando Garcia	Ciudad Guadalupe NL	67	Jeff Kadet	Macomb IL
46	Utah	4	Jeff Kadet	Macomb IL	0		
47	Vermont	5	Dave Nieman	Akron NY	3	Greg Coniglio	Williamsville NY
48	Virginia	11	Jeff Kadet	Macomb IL	5	Dave Nieman	Rock City NY
49	Washington	3	Jeff Kadet	Macomb IL	1	Frank Wheeler	Erie PA
50	West Virginia	19	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
51	Wisconsin	61	Jeff Kadet	Macomb IL	14	Dave Nieman	Akron NY
52	Wyoming	4	Jeff Kadet	Macomb IL	2	Frank Wheeler	Erie PA
53	CANADA:						
54	Alberta	9	Jeff Kadet	Macomb IL	1	Frank Wheeler	Erie PA
55	British Columbia	1	Frank Wheeler	Erie PA	0		
56	Manitoba	7	Jeff Kadet	Macomb IL	3	Frank Wheeler	Erie PA
57	New Brunswick	4	Jeff Kadet	Macomb IL	2	Frank Wheeler	Erie PA
58	Newfoundland	4	Dave Nieman	Akron NY	4	Greg Coniglio	Williamsville NY
59	Nova Scotia	4	Dave Nieman	Rock City NY	3	Dave Nieman	Akron NY
60	Ontario	83	Dave Nieman	Akron NY	73	Greg Coniglio	Williamsville NY
61	Prince Edward Island	0			0		
62	Quebec	18	Dave Nieman	Akron NY	14	Jeff Kadet	Macomb IL
63	Saskatchewan	14	Jeff Kadet	Macomb IL	4	Frank Wheeler	Erie PA
64	MEXICO:						
65	Baja California	2	Fernando Garcia	Ciudad Guadalupe NL	0		
66	Chihuahua	5	Jeff Kadet	Macomb IL	0		
67	Coahuila	4	Jeff Kadet	Macomb IL	1	Fernando Garcia	Ciudad Guadalupe NL
68	Guangulusto	1	Jeff Kadet	Macomb IL	0		
69	Nuevo Leon	9	Fernando Garcia	Ciudad Guadalupe NL	3	Jeff Kadet	Macomb IL
70	Tamaulipas	12	Fernando Garcia	Ciudad Guadalupe NL	2	Jeff Kadet	Macomb IL
71	Veracruz	3	Jeff Kadet	Macomb IL	0		
72	Yucatan	4	Fernando Garcia	Ciudad Guadalupe NL	1	Jeff Kadet	Macomb IL
73	Zacatecas	2	Jeff Kadet	Macomb IL	0		
74	Other Foreign:						
75	AUSTRALIA	1	Jeff Kadet	Macomb IL	0		
76	CUBA	6	Fernando Garcia	Ciudad Guadalupe NL	4	Jeff Kadet	Macomb IL
77	DOMINICAN REPUBLIC	1	Jeff Kadet	Macomb IL	0		
78	EL SALVADOR	2	Fernando Garcia	Ciudad Guadalupe NL	0		
79	GUATEMALA	1	Fernando Garcia	Ciudad Guadalupe NL	0		
80	HONDURAS	2	Fernando Garcia	Ciudad Guadalupe NL	0		
81	NORWAY	1	Jeff Kadet	Macomb IL	0		
82	PUERTO RICO	1	Jeff Kadet	Macomb IL	0		
83	SWEDEN	1	Jeff Kadet	Macomb IL	0		
84	USSR	1	Jeff Kadet	Macomb IL	0		
85	VENEZUELA	1	Greg Coniglio	Williamsville NY	0		

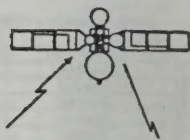
I'd like to thank all of you who contributed to this column. And encourage those who haven't; to send in your TV stats, records and totals. As you can see, there are some records and totals that go unclaimed. Now's the time to check that TV log; you may have a record in there. When you send in that record logging be sure to include: channel, propagation mode, call letters, state/province or country, city of license and your calculated distance. When you send in your country/provinces/state totals; we're counting it by city of license not transmitter location.

I'm indebted to "TV NEWS" column editor Doug Smith for unselfishly sharing his distance calculation computer program. It made verifying distances so much easier.

*Dave*

# SATELLITE NEWS

And now the 1994 yearly review of what's up in the sky. The video services are as accurate as I can be as of mid-October 1993. Many audio sub-carriers have been revised, but due to lack of time for monitoring, a number of SCPC items need to be updated. I hope that what follows is of some interest. One new item is the listing of Digital Video/Compression services. This is not really verifiable as equipment for domestic consumer use is not yet available.



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**SATCOM 5- AURORA - 139 WEST 1991**  
(10 YEARS) 10 WATTS  
FORMAT- ODDS- VERTICAL / EVENS-  
HORIZONTAL  
VIDEO SERVICES =

13- FEEDS  
17- FEEDS  
18- FEEDS  
24- ALASKA SATELLITE TV PROJECT  
NOTE = ODD TRANSPONDERS -  
BEAMED TO CONTINENTAL USA  
EVEN TRANSPONDERS SPOT  
BEAMED TO ALASKA  
AUDIO SUBCARRIERS  
24- KSKA - 91.1 ANCHORAGE, ALASKA  
TALKING BOOK SERVICE  
SCPC SERVICES =  
based on the HEIL format use vertical  
transponders CONUS  
BEAM AS AN EXCEPTION  
206- RFD RADIO NETWORK  
215- BROWNFIELD NETWORK  
221- BUSINESS RADIO NETWORK  
238- BROWNFIELD NETWORK  
245- MISSOURI NETWORK  
246- NORTH CAROLINA NETWORK  
382- AFTRS - ARMED FORCES  
393- AP NETWORK NEWS  
394- NBC RADIO NEWS  
718- 727- VARIOUS TRANSTAR RADIO  
FEEDS

**SATCOM C5- 137 WEST FALL 1990 (10 YEARS) 8.5 WATTS**  
FORMAT - ODDS - HORIZONTAL /  
EVENS VERTICAL  
VIDEO SERVICES =

1- VIDEO COMPUTER STORE AND  
OTHERS  
2- KUSA - CH 9 - DENVER, COLORADO  
- VC2 ABC  
3- KRMA - CH 6 - DENVER, COLORADO  
- VC2 PBS  
4- SPORTS CHANNEL PACIFIC - VC2  
5- HONG KONG JADE NETWORK  
evenings for USA  
6- KMGH - CH 7 - DENVER,  
COLORADO - VC2 CBS  
7- PRIME TICKET LOS ANGELES - VC2  
8- NBC FEEDS  
9- FUTURE MART AND OTHERS /  
SPORTS CHANNEL  
10- HOME SPORTS ENTERTAINMENT  
VC2  
11-  
12- SPORTS CHANNEL AMERICA VC2  
13- SPORTS CHANNEL - CHICAGO  
VC2  
14- KCNC - CH 4 - DENVER,  
COLORADO VC2  
15- SPORTS CHANNEL CINCINNATI,  
FLORIDA, OHIO VC2  
16- SILENT NETWORK/DISABILITY  
CHANNEL  
17- NHK - TOKYO, JAPAN  
18- SPORTS NETWORK/RUSSIAN NET  
OF AMERICA  
19- FOX CHANNEL AND NETWORK  
20- INTERNATIONAL CHANNEL VC2  
22- day - CAL-CHANNEL / night PRIME  
SPORTS NORTHWEST - VC2  
23- KWGN - CH 2 - DENVER,  
COLORADO ind.  
24- SUNSHINE NETWORK VC2  
(SPORTS)  
AUDIO SUBCARRIERS=  
2- PEOPLE'S NETWORK  
3- IN-TOUCH READING SERVICES  
6- BONNEVILLE RADIO NETWORK

(CHURCH OF LATTER DAY SAINTS)  
20- INDEPENDENT BROADCASTERS  
NETWORK  
SCPC = none

**SATCOM C4- 135 WEST AUGUST 31,**  
1992 (12 YEARS)  
FORMAT = ODDS- VERTICAL/EVENS -  
HORIZONTAL 17 WATTS  
VIDEO SERVICES

1- AMERICAN MOVIE CLASSICS VC2  
2- REQUEST 2- PAY-PER-VIEW DV  
\*\*DV=DIGITAL VIDEO\*\*  
3- NICKELODEON - EAST VC2  
4- LIFETIME - EAST VC2  
5- DEUTSCHE WELLE - GERMANY  
6- MADISON SQUARE GARDEN VC2  
7- BRAVO VC2 nights  
8- PREVIEW GUIDE  
9- QVC SHOPPING NETWORK  
10- HOME SHOPPING CLUB 1  
11- THE BOX  
12- NU-STAR CABLE PROMOS  
13- TRAVEL CHANNEL  
14- THE FITNESS CHANNEL  
15- WWOR - CH 9 - SECAUCUS, NEW  
JERSEY (N.Y.C.)  
16- REQUEST 1 PAY-PER-VIEW VC2  
17- MTV EAST VC2  
18- VIEWERS CHOICE 2 PAY-PER-  
VIEW DV (HOT CHOICE)  
19- C-SPAN 2  
20- SHOWTIME - WEST VC2  
21- DISCOVERY VC2  
22- MOVIE CHANNEL - WEST VC2  
23- VIDEO HITS 1 (VH1) VC2  
24- COUNTRY MUSIC TELEVISION  
VC2  
AUDIO SUBCARRIERS - NONE  
SCPC - NONE NOTED

**GALAXY 1- 133 WEST JUNE 28, 1983**  
(9-10 YEARS)

FORMAT= ODDS HORIZONTAL /  
EVENS VERTICAL 9 WATTS  
VIDEO SERVICES=  
1- COMEDY CENTRAL - WEST VC2  
2- ACTION PAY-PER-VIEW VC2  
3- ENCORE VC2  
4- FOODS NETWORK  
5- ALL NEWS CHANNEL VC2  
6- UNIVISION  
7- SHOP-AT-HOME  
8- THE CARTOON CHANNEL VC2  
9- SHOP-AT-HOME  
10- FLIX VC2  
11- EWTN  
12- VALUE VISION  
13-  
14- SHOP-AT-HOME occ.  
15- Z - THE CHRISTIAN MUSIC  
CHANNEL  
16- SHOWTIME 2 VC2  
17- THE NEW INSPIRATION  
NETWORK  
18- HBO DIGITAL COMPRESSION  
VIDEO TEST CHANNEL DV  
19- CINEMAX - EAST VC2  
20- GALAVISION (SPANISH)  
21- U.S.A. NETWORK - WEST VC2  
22- NOSTALGIA  
23- HBO - EAST VC2  
24- THE DISNEY CHANNEL - WEST  
VC2  
AUDIO SUBCARRIERS=  
NONE  
SCPC = NONE

**SATCOM C-3 131 WEST 1992 (10 YEARS)**

FORMAT= ODDS VERTICAL / EVENS  
HORIZONTAL 17 WATTS  
VIDEO SERVICES=  
1- FAMILY CHANNEL - WEST VC2  
2- LEARNING CHANNEL  
3- VIEWERS CHOICE 1 PAY-PER-VIEW  
VC2  
4- LIFETIME WEST VC2  
5- VSN/ACTS  
6- COURT TELEVISION  
7- C-SPAN 1  
8- QVC FASHION CHANNEL  
10- HOME SHOPPING CLUB 2  
11- PRIME NETWORK SPORTS - LOS  
ANGELES  
13- THE WEATHER CHANNEL VC2  
14- NEW ENGLAND SPORTS  
NETWORK VC2  
15- SHOWTIME - EAST VC2  
16- MTV - WEST VC2  
17- THE MOVIE CHANNEL - EAST  
VC2  
18- NICKELODEON - WEST VC2  
19- COMEDY CHANNEL - WEST VC2  
20- MIND EXTENSION UNIVERSITY  
21- COMEDY CHANNEL - EAST VC2  
22- NEWSPORTS  
23- E! - ENTERTAINMENT CHANNEL  
AUDIO SUB-CARRIERS  
23- CABLE RADIO NETWORK  
SCPC- NONE

**ASC1- 138 WEST AUGUST 27, 1985 (8.5 YEARS)**

C and Ku  
FORMAT=ODDS- HORIZONTAL /  
EVENS - VERTICAL 8/16 WATTS Ku  
VIDEO SERVICES=  
MAINLY FEEDS - CAN ACCOMMODATE  
PAL SECAM AND NTSC  
OPEN PUBLIC EVENTS NETWORK -  
NORTH CAROLINA - XPDR VARIES  
12- WORSHIP - CHRISTIAN  
TELEVISION  
20- CHANNEL AMERICA  
22 - MIDWEST SPORTS CHANNEL VC2  
23- SCOLA - FOREIGN LANGUAGE  
NEWSCASTS WORLDWIDE

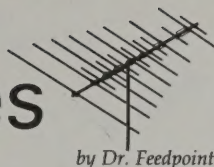
Ku BAND  
SPORTS, RACING, AND NEWS  
FEEDS/BANDERA DOWNS/BLUFFS  
RUN, ETC.  
24- ID CHANNEL IN MAC  
AUDIO SUBCARRIERS=  
C-BAND  
22- WCCO - MINNEAPOLIS,  
MINNESOTA  
SCPC= NONE

**G-STAR 2 124 WEST 14-20 WATTS/2-27 WATTS 1986**

10 YEARS / 1-8 horizontal / 9-16 vertical  
UNIDEN RECEIVER COMPENSATES  
TO A 32 CHANNEL FORMAT  
19- CNN AIRPORT CHANNEL  
22- CNN INTERNATIONAL LEITCH

SATELLITE NEWS ANNUAL REVIEW OF SERVICES  
TO BE CONTINUED NEXT MONTH!

# ANTENNAnotes



by Dr. Feedpoint

The most important single part of any VHF weak signal receiving system is the antenna. This is something that far too many DX enthusiasts don't seem to properly "grasp." Most of you out there probably got to the TV and FM side of the DX'ing hobby by way of the Shortwave bands...and those bands are a "way cool" place for long distance reception. All you have to do is string a piece of copper wire across the yard, pick the appropriate frequency bands, turn the radio on, and you'll easily hear worldwide DX in one night! If you get more "into it" you may want to cut a half-wave dipole for the band(s) of your personal interest. And that's about all you ever need, unless you decide go for a "gain antenna" such as a yagi, or quad, usually only used by amateur radio operators.

But when you get up to VHF (30 to 300 MHz) and above, things are different. Way different. So different, in fact, that it means that the successful TV or FM DX fanatic must also be something of an "antenna buff." That piece of copper wire that works so well receiving the world at 15 MHz is nearly useless up on channel 13, and forget about using it to seriously chase 700 mile tropo ducts on 100.3 MHz.

If you want to know how to pick and choose (and install) commercially available TV and FM antennas that will make for the best DX results in your location, then this series of columns is for you. These are being written in late 1993 for publication in the VUD in 1994. As of this writing, antennas for TV and FM are still commercially available for decent prices, sometimes even sold by WTFDA members (watch for their VUD ads) at very reasonable prices. Don't believe that pimple-faced idiot at the local Radio Shack who may try to convince you that the major manufacturers such as Channel Master, Winegard, General Instrument, etc. no longer make antennas. The quality stuff is still available, albeit a bit harder to locate in this age of CATV, VCR, and just plain consumer ignorance about how to receive anything but a Domino's Pizza from a long distance.

Since you are already a WTFDA member you probably already are something of an authority of the local and regional stations in your area, and you probably have a good idea of what kind of equipment is needed to pick them up. If so, then congratulations to you--that makes you "one up" on your neighbors, who probably have nervous breakdowns whenever the local cable TV company have an outage, depriving them of the thrill of watching that local TV station from 3 miles away.

TV and FM DXers need to know some basic antenna concepts in order to make the right choices. We don't want to go too deeply into theory here--there are plenty of good references, which we'll suggest in a later column, for just that purpose. We're going to try to also answer some of the more frequently asked antenna questions (Example -- Q: Can I use my C.B. antenna with a low-noise pre-amp to DX UHF TV? A: Not unless you're a real die-hard optimist, Bubba.)

The main mission of the feature is meant to be education. I'm out to tell you stuff you need to know about your antenna. What kind of antenna do YOU use? I notice some members report using rabbit ears. My advice: lose 'em -- even a couple of shower curtain rods can be made to work better than them, or better still, a simple quad loop made from bell wire or lamp cord for pennies. I'm going to devote a column or two, or three to such simple homebrew projects for those of you who can't or won't put something up on the roof.

There's a lot of "hokum" about antennas out there. Everyone wants to know "which antenna works best?" There's no easy answer to that one. I've found that it all depends upon the needs of the individual DXer. The antenna that works best in a stacking situation often is not the best one to use in "single-bay" configuration. Some of the models I notice DXers using have TERRIBLE front/back ratios. Many DXers appear to ignore the value of a good low-loss feed line (or "lead-in" as some call it.) And...wait 'til you hear some of the things you don't know about the importance of antenna height. It will be enough to make you want to move to the nearest hill. Height often beats higher gain antennas, in many, many "real-world" situations. I promise to try to cover these, and many other topics in forthcoming installments!

Next Column: My Antenna is Bigger Than Yours, or "It's Not How Much, It's How Many Times That Count." We're talking about the dB here folks. Don't get so excited.

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**EDITOR'S NOTE:** Dr. Feedpoint is a CET who works for a midwestern U.S. firm installing LAN networks, MATV/SMATV systems and TVRO systems. He's not really a Doctor, his name isn't really Feedpoint, and he says his boss will kill him "if he finds out I'm writing this stuff on company time."

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# WORLDWIDE TV-FM DX ASSOCIATION

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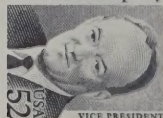
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